Spring 2013 Product Catalog

CSI Communications Specialties, Inc.

Learn more at commspecial.com | 631-273-0404

Contents

RGB and Audio

7220 RGB Series 6
Digitally transmits high-resolution RGB (up to WXGA) and stereo audio over one single mode or multimode fiber optic core

7250 RGB Series 10
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RGB, Audio and Data

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Video and Two Way Data

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10 Channel Composite Video Multiplexer with bi-directional data over one single mode or multimode fiber

3800 Composite Video Series 58
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Video and Audio

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7142 Video Series 66
Four uncompressed video channels and eight independent audio channels all transmitted digitally over a single fiber

7130 Wideband Video Series 68
15 MHz wideband video with four independent audio channels, digitally transmitted over one fiber

Video Only

3134 Video Multiplexer Series 72
10 Channel Composite Video Multiplexer over one single mode or multimode fiber

7100 Wideband Video Series 74
15 MHz wideband video digitally transmitted over one fiber using 10-bit quantizing

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Transmits RS-232 data over multimode fiber for simplex, duplex, asynchronous, point-to-point and drop-and-repeat operation

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Fiberlink Matrix 88
Fully configurable optical matrix switch offering up to 32 inputs and 32 outputs selectable on a one by one basis.

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8200 3G/HD/SD-SDI Optical Distribution Amplifier 94
One to four output optical distribution amplifier with switch selectable copper or optical signal input source.

8100 Optical Distribution Series 96
Twelve output optical D.A. works with one-way Fiberlink systems, providing infinite signal extension and distribution options

8000 Optical Distribution Series 98
Four output optical D.A. works with one-way Fiberlink systems, providing infinite signal extension and distribution options

8000 & 8100 Optical Distribution Series 100
Loss budgets and transmission distances

6500 Optical Splitter Series 104
Passive optical splitters allow transmission from one fiber optic transmitter to multiple receiver units by "splitting" optical power across outputs

Fiberlink FlexPOD 106
Configurable passive optical signal distribution system to create up to 4 different and independent optical CWDMs, WDMs and/or Splitters in 1RU!

6400 Coarse Wave Division Multiplexer Series 108
Complex wave division multiplexers (CWDM) allow 4 or 8 fiber optic links to operate at different wavelengths over a single fiber

6400 WDM Series 110
Passive optical wave division multiplexers allow two fiber optic links to operate at different wavelengths over a single fiber

Audio Only

4320 Audio Series 114
Thirty-two independent audio channels digitially transmitted over one fiber with optional redundancy

4160 Audio Series 116
Sixteen independent audio channels digitially transmitted over one fiber with optional redundancy

4040 Audio Series 118
Four independent audio channels digitally transmitted over one fiber

Specialty Data

XC/RC-1000A TTL 122
Transmits eight independent contact closure or TTL signals over a single fiber

XRD-8050 CALTRANS/NEMA 124
Fiber optic data transmission for CALTRANS 170 or 179 series and NEMA traffic signal controller applications

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Light sources and an optical power meter allow for convenient, on-site testing of fiber networks during construction and maintenance procedures

Rackmounts

6000A Rackmountable Card Cage 136
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Copperlink™ 3G/HD/SD-SDI Distribution

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2353 3G/HD/SD-SDI to HDMI Converter with SDI Output . 142
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Scan Do® HD 148
DVI-I to 3G/HD/SD-SDI Scan Converter now with DVI or Analog RGB inputs and 3G-SDI Output Support.

Video Scalers

Deuce® 152
The "original" affordable video scaler creates high resolution, film-quality images from standard video sources

Deuce® MC. 154
Video scaler, line doubler and line quadrupler with user-controlled, six-setting motion compensation feature

Deuce® HD. 156
Video scaling and processing from standard TV video to five non-interlaced HDTV and DTV resolutions

Deuce® SDQ 158
Versatile scaler, line doubler and line quadrupler offers quality performance at a very affordable price

Splitters & Switches

Quadswitch™ for VGA 162
High-performance 4x1 active switch with fully buffered inputs and output and advanced sync processing

Splitters for VGA 164
Fully-buffered distribution amplifiers for VGA, available in five models offering two to ten outputs

Splitter for Composite Video 166
Fully-buffered six output distribution amplifier supports composite video signals in NTSC and PAL formats

Splitters for S-Video 168
Fully-buffered two and six output distribution amplifiers support S-Video signals in NTSC and PAL formats

Splitters for RGB 170
Fully-buffered two and four output distribution amplifiers for RGB and YUV signals

TwinSplit® E.D. 172
"Extended Distance" VGA splitter distributes two buffered outputs to distances of up to 700 feet

Cable Assembly/Termination

6202 Fiber Optic Termination Kit 176
Easily terminates fiber cable with no grinding, polishing, glues or epoxies

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Rackmount kits and cables are available for use with all CSI video products. Cables may be ordered raw or preterminated.

Power Supplies

PDPS-1: Universal Power Supply 184
Provides power to Fiberlink box units requiring an external power adaptor

PDPS-2: Universal Power Supply 186
Provides power to Fiberlink box units requiring an external power adaptor

RGB and Audio

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7220 RGB Series

Digitally transmits high-resolution RGB (up to WXGA) and stereo audio over one single mode or multimode fiber optic core

Features

Ideal Applications:

Digital signage, command and control centers, auditoriums, stadiums and theaters, transportation hubs, distance learning, surgical and medical imaging

Supports VGA, SVGA, XGA and WXGA (640 x 480 up to 1366 x 768)

Supports HDTV resolutions of 480p, 720p and 1080i (RGBHV format only)

Uses all digital processing with no compression for crystal clear signals and no color pixel skewing

Requires no adjustments, equalization or de-skewing during installation

Transmits signals over one single mode or multimode fiber optic core at 1310 nm wavelength

Low audio/video skew, <300 uSec

Use with Fiberlink 8000 and 8100 Series Optical DAs for complex point-to-multipoint distribution

RoHS Compliant

7220/7221

Complete kit available for a point-to-point "ready to install" solution. Includes transmitter, receiver, power supplies, 250 meters of fiber and various audio and VGA cables. Box and card units available. Card versions fill one slot in 6000A card cage.

7222/7224/7226
4, 8 or 12 optical output models for point-to-multipoint distribution

Compatible with all 7220 Series receivers

1 RU case with internal power supply

7223/7225/7227
Compatible with all 7220 Series transmitters

Models support optical looping for daisy-chain distribution

Models support up to 4 baseband video and stereo audio outputs

Available in box version only. Power supply sold separately

7220 Series (all models) - Digital		
Signal	*Channels*	*Direction*
RGB	1	→
Audio	2	→

Optical Outputs		
Model	*Standard*	*Loop-Thru*
7220	1	0
7222	4	0
7224	8	0
7226	12	0
7225, 7227	0	1
7221, 7223	0	0

Baseband Outputs		
Model	*RGB*	*Audio*
7221, 7225	1	2
7223, 7227	4	8
7222 ,7224, 7226	1 loop-thru	2 channel loop-thru

Sales

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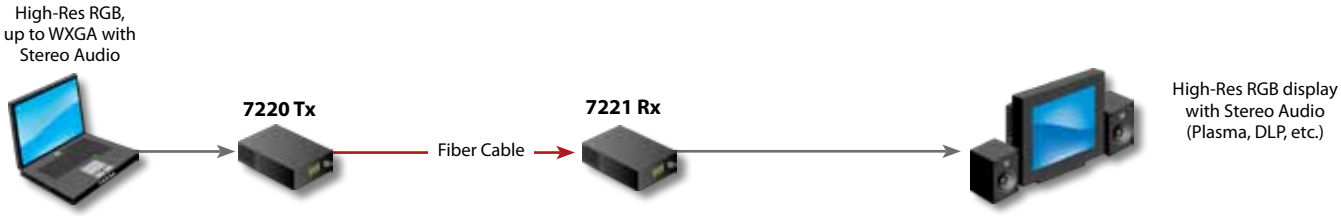
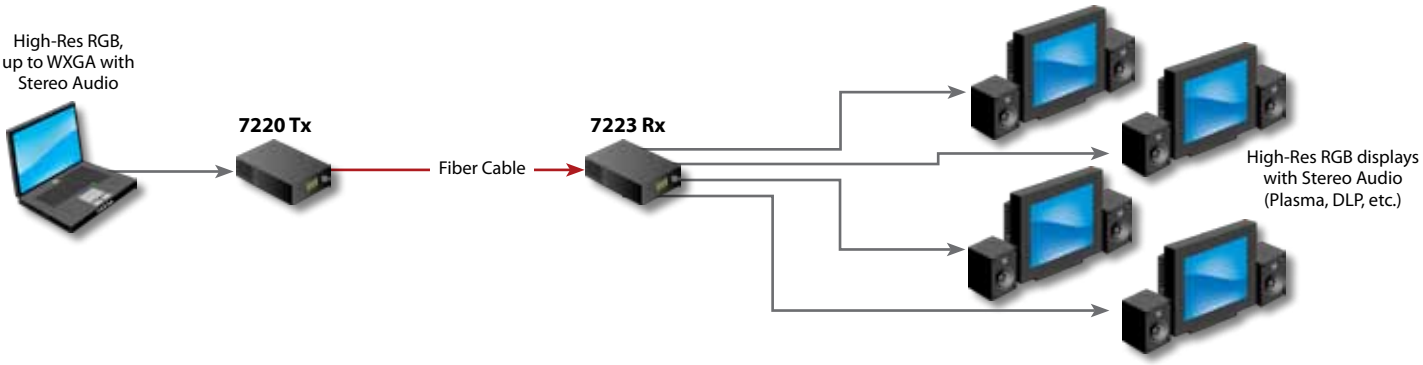
info@commspecial.com

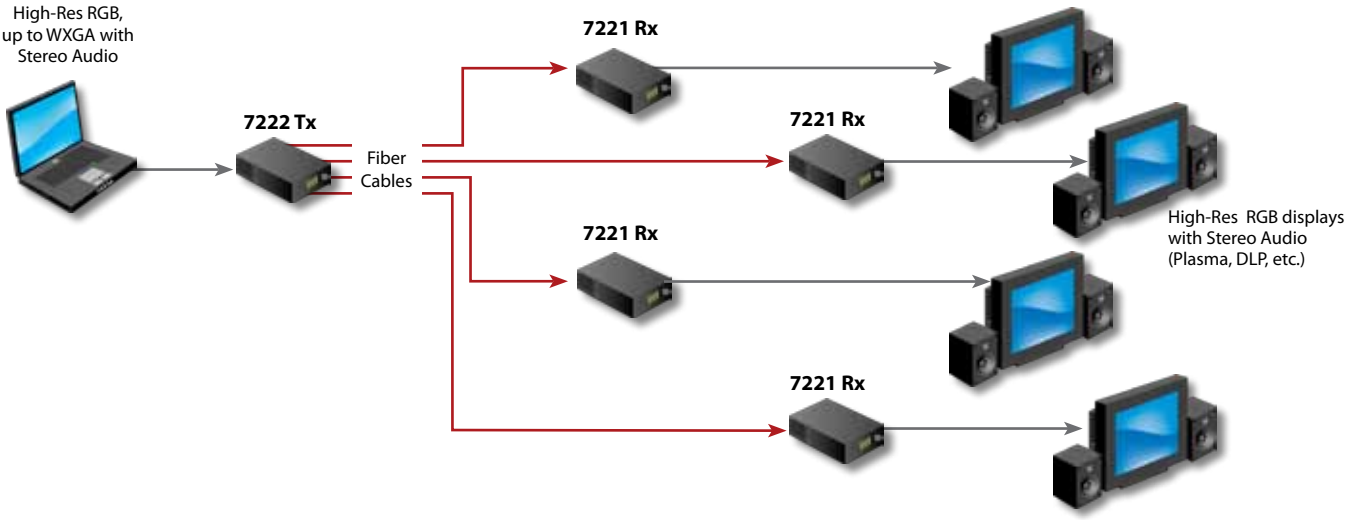
Point-to-Point Distribution



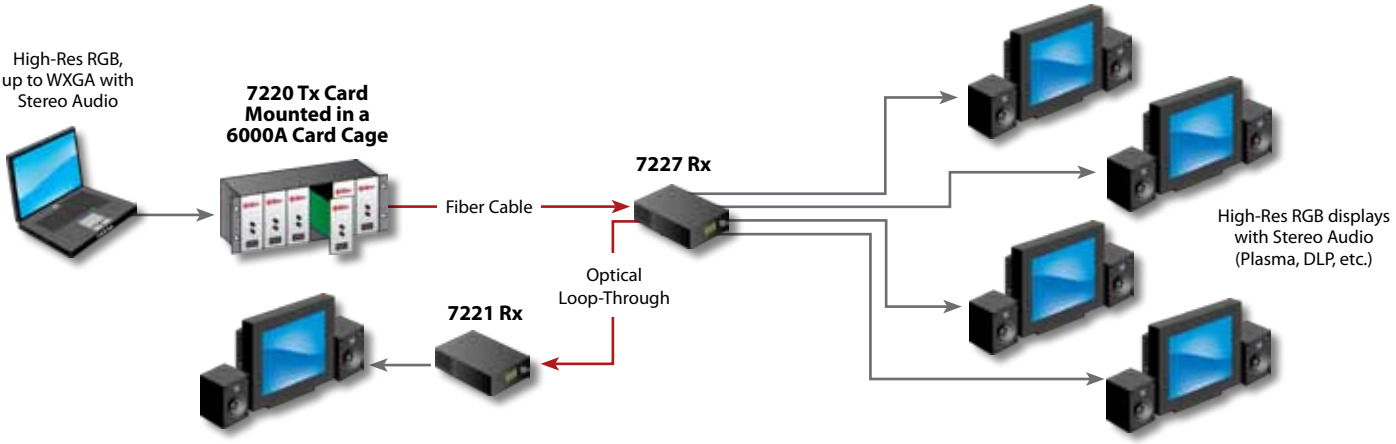
Point-to-Point Distribution; Multiple Baseband Outputs



Point-to-Multipoint Distribution



Drop-and-Repeat Distribution with Optical Loop-Through at Receiver; 1 or 4 Baseband Outputs



Video Specifications

Number of Video Channels Supported

7220, 7221, 7223, 7225, 7227	1 RGBHV
7222, 7224, 7226	1 RGBHV with active loop-thru on input

Number of Baseband Video Outputs

7221, 7225	1 RGBHV
7223, 7227	4 RGBHV
RGB Processing	24 bits, no compression, scaling or color space conversion
Input Impedance	RGB: 75 Ohms; H & V: Hi-Z
Input Level	RGB: 714 mV p-p; H & V: 3 to 5 V p-p
H Sync Frequency Range	31.5 to 60 kHz
V Sync Frequency Range	30 to 85 Hz
RGB Format Supported	RGB with separate H and V

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7220 RGB Series

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
1310 MM	0-15	0.75
1310 SM	0-15	30

SM = Single Mode Fiber
MM = Multimode Fiber

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

Class 1 Laser product complies with FDA performance standard for laser products, Title 21, Code of Federal Regulations, Sub-Chapter J.

Audio Specifications

Number of Audio Channels Supported

7220, 7221, 7223, 7225, 7227	2, unbalanced
7222, 7224, 7226	2, unbalanced, with passive loop-thru on input

Number of Baseband Audio Outputs

7221, 7225	2, unbalanced
7223, 7227	8, unbalanced
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; 54 kHz
THD+N	0.005%, 20 Hz - 20 kHz

Maximum Audio Level	+10 dBu
SNR (A-Weighted)	95 dB
Channel Phase Differential	±0.1°
Crosstalk	Min. 95 dB (1kHz)
Input Impedance	>24 k Ohms
Output Impedance	< 1 Ohm
Audio to Video Differential Delay (skew)	<300 uSec

General Specifications

LED Indicators	Power, Video, Audio
Card version only of 7220 & 7221	Alarm LED

Power Requirements

7220*, 7221*	9-24 volts AC or DC, 5 watts
7222, 7224, 7226	95-250 volts AC, 47-63 Hz, 9 watts
7223*, 7225*, 7227*	9-24 volts AC or DC, 8 watts

*For operation from 95-250 volts AC, 50/60 Hz, a PDPS-1 plug-in adapter is required.

Physical Size

7220, 7221	5 W x 1.15 H x 5.25 L (inches) 127 W x 29 H x 133 L (mm)
7222, 7224, 7226	16.75 W x 1.75 H x 10 D (inches) 425 W x 44 H x 254 D (mm)
7223, 7225, 7227	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)

Approximate Weight

7220, 7221	10 oz; 0.284 kg
7222, 7224, 7226	5.5 lbs; 2.6 kg
7223, 7225, 7227	1.2 lb; 0.55 kg
Optical Connectors	ST
Operating Wavelength	1310 nm
Operating Temp. Range	-20 to +60° C (7220/7221) -20 to +50°C (all others)

Ordering Information

7220-KIT-pp*	Complete Kit - contents listed below**	1
7220-B7S	Transmitter, Box Version	1
7220-C7S	Transmitter, Card Version	1
7221-B7S	Receiver, Box Version	1
7221-C7S	Receiver, Card Version	1
7222-7S-pp	Transmitter (1 RU), 4 optical outputs	4
7224-7S-pp	Transmitter (1 RU), 8 optical outputs	8
7226-7S-pp	Transmitter (1 RU), 12 optical outputs	12
7223-B7S	Receiver (Box), 4 RGB w/audio outputs	1
7225-B7S	Receiver (Box), 1 RGB w/audio output, 1 re-clocked optical loop-through	2
7227-B7S	Receiver (Box), 4 RGB w/audio outputs, 1 re-clocked optical loop-through	2
PDPS-1-pp	Power Supply	
101933	6 ft. HD-15M to HD-15M VGA type cable	
1206	6 ft. HD-15M to 5 x BNC-M RGBHV cable	
1214	6 ft. 3.5 mm plug to 3.5 mm plug stereo audio cable	
1213	6 ft. 3.5 mm plug to 2 x RCA-M stereo audio cable	
6340	ST-M to FCPC-F adapter for multimode fiber	
6350	ST-M to FCPC-F adapter for single mode fiber	

***7220-KIT-pp includes:*

Qty	**Part Number** (described above)
1	7220-B7S
1	7221-B7S
2	PDPS-1-pp (specify line cord)
2	101933
1	1206
2	1214
1	1213
1	122960: 250 m (820 ft.) of plenum rated SM fiber with ST connectors and a pulling eye

***Power Supply Suffix Codes (pp) for AC Line Cord:**

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Videoconferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

The **Fiberlink®** line offers an extensive and affordable family of fiber optic transmission systems for the Professional A/V marketplace and includes several ground-breaking products for the transmission of high-resolution RGB signals. Systems for point-to-point and point-to-multipoint signal distribution make these products highly desirable for any Pro A/V architecture. New products are constantly being designed and developed and you can get the latest information at commspecial.com

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7220 RGB Series

GSA Schedule Contract GS-03F-5063C

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Want to learn more about fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!

Sales

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631-273-0404 | commspecial.com
info@commspecial.com

UPDATED 1/8/2010

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Made in the USA

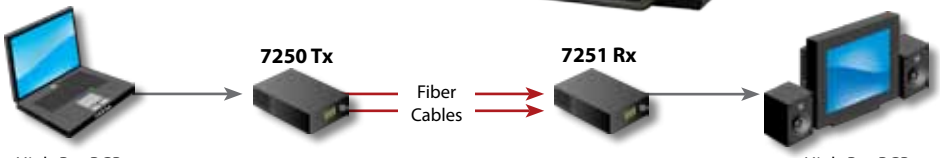
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7250 RGB Series

Digitally transmits high resolution RGB (up to WUXGA) and stereo audio over single mode or multimode fiber.

Ideal Applications:

Digital signage, command and control centers, auditoriums, stadiums and theaters, transportation hubs, distance learning, surgical or medical imaging



High-Res RGB up to UXGA & Stereo Audio

High-Res RGB Displays with Stereo Audio

Signal	Channels	Direction
RGB (to WUXGA)	1	→
Audio	2	→

Features

Transmits VGA, SVGA, XGA, WXGA, SXGA, SXGA+, UXGA and WUXGA (640 x 480 up to 1920 x 1200)

Supports HDTV resolutions of 480p, 720p, 1080i and 1080p (RGBHV format only)

Uses all digital processing with no compression for crystal clear signals and no color pixel skewing

Requires no adjustments, equalization or de-skewing during installation

Transmits signals over two single mode or multimode fiber optic cores at 1310 nm wavelength

Low audio/video skew, <300 uSec

Small, lightweight, uses low power

Complete kit available for a "ready to install" solution. Includes transmitter, receiver, power supplies, 250 meters of duplex fiber and various audio and VGA cables

Unique feature allows the two fibers to be cross connected without affecting operation!

Fiber cables can be up to 20 meters different in length!

RoHS Compliant

Ordering Information

Part Number	Description	Fiber Cores
7250-KIT-pp	Complete Kit - contents listed below*	2
7250-B7S	Transmitter, Box Version	2
7250-C7S	Transmitter, Card Version	2
7251-B7S	Receiver, Box Version	2
7251-C7S	Receiver, Card Version	2
PDPS-1-pp	Power Supply	
101933	6 ft. HD-15M to HD-15M VGA type cable	
1206	6 ft. HD-15M to 5 x BNC-M RGBHV cable	
1214	6 ft. 3.5 mm plug to 3.5 mm plug stereo audio cable	
1213	6 ft. 3.5 mm plug to 2 x RCA-M stereo audio cable	
6340	ST-M to FCPC-F adapter for multimode fiber	
6350	ST-M to FCPC-F adapter for single mode fiber	

7250-Kit-pp includes:

Qty	*Part Number*
1	7250-B7S
1	7251-B7S
2	PDPS-1-pp (specify line cord)
2	101933
1	1206
2	1214
1	1213
1	124857: 250 m (820 ft.) of plenum rated duplex SM fiber with ST connectors and a pulling eye

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Sales

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info@commspecial.com

Video Specifications

Number of Video Channels	1 RGBHV
RGB Processing	24 bits, no compression or scaling
Input Impedance	RGB: 75 Ohms; H & V: Hi-Z
Input Level	RGB: 714 mV p-p; H & V: 3 to 5 V p-p
H Sync Frequency Range	15 to 75 kHz
V Sync Frequency Range	30 to 85 Hz
RGB Format Supported	RGB with separate H and V

Audio Specifications

Number of Audio Channels	2, unbalanced
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; 54 kHz
Maximum Audio Level	+10 dBu
SNR (A-Weighted)	95 dB
THD+N	0.005%, 20 Hz - 20 kHz
Channel Phase Differential	±0.1°
Crosstalk	Min. 95 dB (1 kHz)
Input Impedance	>24 k Ohms
Output Impedance	< 1 Ohm
Audio to Video Diff. Delay (skew)	<300 uSec

General Specifications

LED Indicators	Power, Video, Audio, Alarm LED (card version only)
Allowable Differential Fiber Length	20 meters
Power Requirements*	9-24 volts AC or DC, 10 watts
Operating Temperature Range	-20°C to +50°C
Optical Connectors	ST x 2
Operating Wavelength	1310 nm
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	1 lb. (0.455 kg)
Slots filled in 6000A Card Cage	2
MTBF	74,000 Hours

For operation from 95-250 volts AC, 50/60 Hz, a PDPS-1 plug-in adapter is required.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7250 RGB Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
1310 MM	0-15	0.75
1310 SM	0-15	30

SM = Single Mode Fiber
MM=Mulitmode Fiber

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

Want to learn more about fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

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Made in the USA

RGB, Audio and Data

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7240 RGB Series

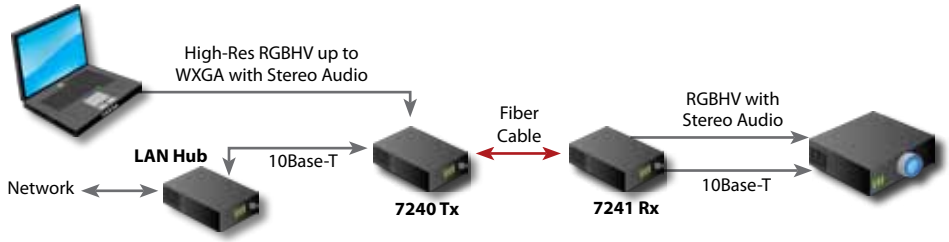
AV meets IT with this revolutionary fiber product, combining RGBHV, stereo audio, Ethernet and 2-way data support, all over a single fiber optic core

Ideal Applications:

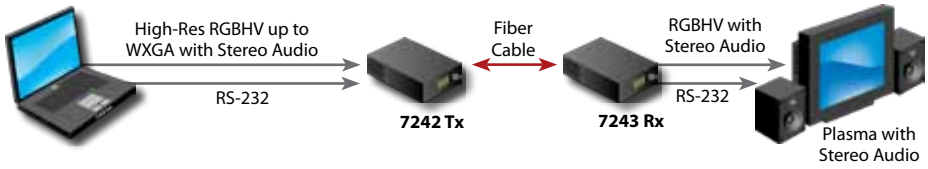
Conference Rooms, Class Rooms, Boardrooms, Command and Control, Transportation Hubs, Airports, Museums

Signal	Channels	Direction
7240/7241		
RGB	1	→
Audio	2	→
10Base-T	1	↔
Data	1	↔
7242/7243		
RGB	1	→
Audio	2	→
Data	1	→

RGBHV, Stereo Audio and 2-Way Data (Ethernet or RS-232)



RGBHV, Stereo Audio and 1-way Data



Features

Digitally transmits RGBHV, stereo audio, bidirectional 10Base-T and bidirectional data over a single fiber.

Transmitter/receiver pair for RGBHV, stereo audio and one-way data also available.

Supports VGA, SVGA, XGA and WXGA (640 x 480 up to 1366 x 768), and HDTV resolutions of 480p, 720p and 1080i (RGBHV format only).

Uses single mode or multimode fiber; see ordering information.

Low audio/video skew, <300 uSec

All digital processing and transmission delivers crystal clear signals and no color pixel skewing.

Transparent bidirectional 10Base-T support enables communication between a local device, such as a projector or a media controller, and a local area network (LAN) server.

Transparent bidirectional data channel supports RS-232, RS-422 and RS-485 protocols. 7242 & 7243 models support one-way RS-232 and RS-422.

Card or box version. Card fits within model 6000A card cage.

Ordering Information

Part Number	Description	Fiber Cores
7240-xyS	Transmitter - RGBHV, Audio, 10Base-T, 2-way data	1
7241-xyS	Receiver - RGBHV, Audio, 10Base-T, 2-way data	1
7242-x7S	Transmitter - RGBHV, Audio, 1-way data, SM or MM	1
7243-x7S	Receiver - RGBHV, Audio, 1-way data, SM or MM	1
PDPS-1-pp	Power Supply	
101933	6 ft. HD-15M to HD-15M VGA type cable	
1206	6 ft. HD-15M to 5 x BNC-M RGBHV cable	
1213	6 ft. 3.5 mm plug to 2 x RCA-M stereo audio cable	
1214	6 ft. 3.5 mm plug to 3.5 mm plug stereo audio cable	
6340	ST-M to FCPC-F adapter for multimode fiber	
6350	ST-M to FCPC-F adapter for single mode fiber	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Part Number Suffix Codes:

x: B Box Version
C Card Version

y: 3 Multimode Version
7 Single Mode Version

Sales

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Video Specifications:

Number of Video Channels	1 RGBHV
Number of Baseband Video Outputs	1
RGB Processing	24 bits, no compression or scaling
Input Impedance	RGB: 75 Ohms; H & V: Hi-Z
Input Level	RGB: 714 mV p-p; H & V: 3 to 5 V p-p
H & V Sync Frequency Range	H: 15 to 60 kHz; V: 30 to 85 Hz
RGB Format Supported	RGB with separate H and V
Video Connector	HD-15F

Audio Specifications:

Number of Audio Channels	2
Number of Baseband Audio Outputs	2
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; 52 kHz
Maximum Audio Level; SNR (A-Weighted)	+10 dBu; 95 dB
THD+N	0.005%, 20 Hz - 20 kHz
Channel Phase Differential	+0.1°
Crosstalk	Min. 95 dB (1 kHz)
Input & Output Impedance	Input: >24 k Ohms; Output: < 1 Ohm
Audio to Video Diff. Delay (skew)	<300 uSec
Audio Connector	3.5 mm jack

Ethernet Specifications: (7240/7241 only)

Port:	10Base-T, RJ-45 connector, Auto-MDIX
Speed:	10 Mbps Ethernet

Data Specifications:

Data Bandwidth	DC to 115 Kb/sec, max.
Control Format	switch selectable RS-232 & RS-422; Only the 7240/7241 models support RS-485 (2-wire and 4-wire)
Protocols	NRZ, NRZI, RZ, Manchester, Bi-phase
Signal Connectors:	Removable terminal block

General Specifications:

LED Indicators	Power, Video, Audio, Data, Link, Activity, Alarm (card version only)
Operating Temperature Range	-20° to +50° C
Operating Power	9-24 Volts AC or DC@7.4 watts (max.)
Optical Connectors	ST
Operating Wavelength	1310 nm; 1550 nm on return path - SM; 850 nm on return path - MM
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	Approx. 1 lb., 3 oz.; 0.589 kg
Slots filled in 6000A Card Cage	2
MTBF:	7240/7241: 32,000 Hours 7242/7243: 51,000 Hours

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VIDEO, AUDIO & DATA OVER FIBER

7240 RGB Series

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
7240/7241		
1310 MM	0-10	0.35
1310 SM	0-15	30
7242/7243		
1310 MM	15	0.75
1310 SM	15	30

SM = Single Mode Fiber
MM = Multimode Fiber

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

Want to learn more about fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Sales

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DVI and Audio

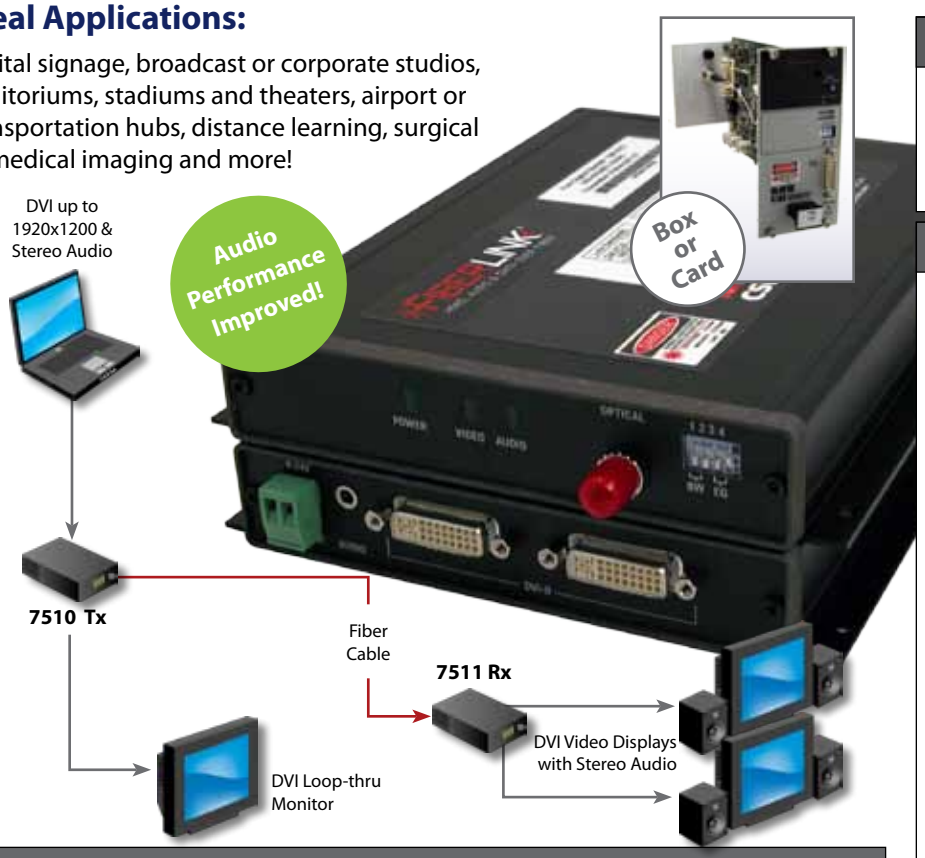
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7510 DVI Series

DVI transmission (up to 1920x1200) and stereo audio over one single mode or multimode fiber without compression, scaling or adjustments.

Ideal Applications:

Digital signage, broadcast or corporate studios, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!



Signal	Channels	Direction
DVI to WUXGA	1	→
Audio	2	→

Features

Transmits single-link DVI (640 x 480 up to 1920 x 1200 - 165 MHz pixel clock)

Supports HDTV resolutions of 480p, 720p, 1080i and 1080p (DVI format)

Uses no compression, color space conversion or scaling for crystal clear signals

Only one fiber used - no pixel skewing

Supports up to 45 foot (13.72m) DVI input cable

DVI Input loop-through on transmitter

Supports EDID from loop-through, internal emulation from the transmitter, or you may capture and store EDID information.

Requires no adjustments, equalization or de-skewing during installation

Advanced input circuit equalizes and re-clocks noisy and distorted DVI input signals

Two DVI outputs on box receiver allows for driving two monitors

Transmits signals over one fiber using advanced CWDM multiplexing

Low audio/video skew, <300 uSec

RoHS Compliant

Ordering Information

Part Number	Description	Fiber Cores
7510-xyS	Transmitter	1
7511-xyS	Receiver	1
7512-x1S	Transmitter, Dual MM Optical Outputs	2
7510-KIT-pp*	Complete 7510 Series Kit	1
PDPS-2-pp	Power Supply	N/A

***7510 Complete Kit Contents:**

Qty	Part Number	Qty	Part Number
1	7510-B7S Transmitter (SM only)	1	7511-B7S Receiver (SM only)
2	PDPS-2-pp (specify line cord)	1	122960 - 250 Meter SM Fiber ST Connectors, pull hook
1	126216 - 6ft., DVI (M) to DVI (M)	2	1214 - 6ft., 3.5mm to 3.5mm stereo audio cable
1	1213 - 3.5mm to 2 RCA (M) stereo audio cable		

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Part Number Suffix Codes:

x: B Box Version
C Card Version

y: 1 850 nm Multimode (MM)
7 1310 nm Single Mode (SM)

7510, 7511, and 7512 are not compatible with 7500, 7501 or 7502 products

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Video Specifications

Input Type	DVI-D or DVI-I (digital signal only) single link
Number of Video Channels	1 single-link DVI-D up to 1920x1200
Video Processing	24 bits, no compression or scaling
DVI Input Loop-through	Yes; both box & card versions
EDID (DDC) Support	From loop-through, internal or capture & storage capability
Pixel Clock Range	25 - 165 MHz, continuous
Scanning System Supported	Progressive or Interlaced
Color Space Format Supported	RGB or YPrPb
Maximum Input Cable Length	45 Feet (13.72m)
Maximum Output Cable Length	16 Feet (5m)
Number of DVI Outputs	2 on box version, 1 on card version

Audio Specifications

Number of Audio Channels	2, unbalanced
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; >48 kHz
Maximum Audio Level	+10 dBu
SNR (A-Weighted)	100 dB
THD+N	0.001%, 20 Hz - 20 kHz
Channel Phase Differential	±0.1°
Crosstalk	100 dB (1 kHz)
Input Impedance	>24K Ohms
Output Impedance	< 1 Ohm
Audio to Video Diff. Delay (skew)	300 uSec

General Specifications

LED Indicators	Power, Video, Audio, Alarm LED (card version only)
Power Requirements*	9-24 volts AC or DC, 10 watts, 34.12 BTU/Hr
Operating Temperature Range	-20°C to +45°C
Optical Connector	7510/7511: ST x 1 7512: ST x 2
Operating Wavelength	SM: CWDM (1300-1600nm band) MM: CWDM (850nm band)
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	1 lb. (0.455 kg)
Slots filled in 6000A Card Cage	3
MTBF	45,000 Hours

**For operation from 95-250 volts AC, 50/60 Hz, a PDPS-2 plug-in adapter is required.*

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7510 DVI Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
1310 SM	0-15	15
850 MM	0-8	0.75 (50u) 0.35 (62.5u)
850 MM Dual Optical Output Version	0-4	0.60 (50u) 0.30 (62.5u)

SM = Single Mode Fiber

MM = Multimode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

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Made in the USA

3G/HD/SD-SDI

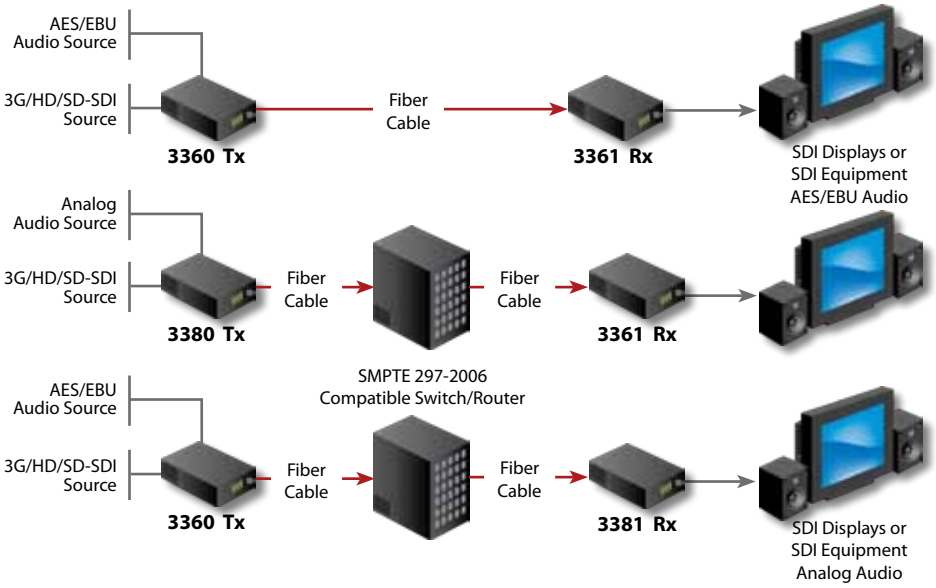
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3360 3G/HD/SD-SDI & 4 Pairs of AES/EBU Digital Audio Series

Broadcast quality 3G/HD/SD-SDI & AES/EBU Digital Audio transmission over one single mode or multimode fiber with full SMPTE compliance.

Ideal Applications:

Broadcast or corporate studios, OB Vans, Rental & Staging, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!



Signal	Channels	Direction
3G/HD/SD-SDI	1	→
AES/EBU	8 (4 Pairs)	→

Features

- Inserts up to 8 channels (4 pairs) of AES/EBU digital audio
- Automatic Sample Rate Conversion (SRC) of audio inputs
- 75 ohm, unbalanced BNC audio interface per AES3id and SMPTE 276M
- Transmitter can pass existing embedded audio or insert audio on a pair by pair basis
- Compatible with Fiberlink 3360 for conversion between digital and analog audio.
- Signal is equalized and re-clocked prior to fiber optic transmission
- Receiver features a re-clocked SDI output
- Designed for fiber optic interoperability with other SMPTE 297-2006 fiber optic compliant devices up to 2.97 Gbps
- Immunity to pathological patterns over entire link budget and operating temperature range
- Compliant with SMPTE 259M-2006, 292-2006, 424M-2006, 297-2006, 276M
- Supports both Single Mode and Multimode (62.5u & 50u) fiber types
- Supports 3G/HD/SD-SDI inputs with or without embedded audio and data
- 14 dB Optical Link Budget @ 2.97 Gbps
- Wide operating temperature range: -10° C to +50° C
- Available in Box and Card versions

Ordering Information

Part Number	Description	Fiber Cores
3360-x7z	Transmitter	1
3361-x7z	Receiver	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America AU - Australia EU - Europe
JP - Japan UK - United Kingdom

Part Number Suffix Codes:

x:	B	Box Version	***z:***	L	LC Connector
	C	Card Version		S	ST Connector

Sales

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Fiberlink® 3360 Series General Specifications

Indicators	Power, Data Rate lock (3G, HD, SD) Alarm (card version only)
Box Version Dimensions	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots in 6000A Card Cage	2
Power	9-24 volts, AC or DC, 3360: 8 watts, 27.30 BTU/Hr 3361: 2.5 watts, 8.53 BTU/Hr
Operating Temperature	-10º C to +50º C

Fiberlink® 3360 Transmitter Specifications

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	270 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 297-2006, 424M-2006
Re-clocked Data Rates	270 Mbps (SMPTE 259M), 1.485 Gbps (SMPTE 292), 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

Optical Output

SMPTE 297-2006 Labeling	L-PC-ABCD-1310
Connector	LC receptacle, PC polish or ST
Wavelength	1310nm (nominal)
Emmiter Type	FP Laser
Output Power *(nominal)*	-3.5 dBm at 270 Mbps; -3.5 dBm at 1.485 Gbps; -3.5 dBm at 2.97 Gbps
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Audio Specifications

Unbalanced, 75 ohms, BNC per AES3id and SMPTE 276M	
Channels	8 (4pairs)
Embedding	Selectable per pair
Sample Rate Conversion (SRC)	32-96 kHz input range converted to 48 kHz
SDI pre-embedded audio	All channels supported for pass through. Pairs 1 to 4 may be stripped selectable for each pair

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3360 3G/HD/SD-SDI & 4 Pairs of AES/EBU Digital Audio Series

Fiberlink® 3360 Transmitter

Front Panel LEDs quickly reveal the 3360's Video & Audio input status

Dip Switches allow for quick configuration of your audio embedding preferences

Front Panel Audio LEDs quickly reveal which pairs have audio present

The 3361 Receiver allows you to choose which audio pairs to de-embed or mute

Fiberlink® 3361 Receiver

The Fiberlink® 3360 Series is available in a card version that is compatible with the Fiberlink® 6000A Rackmountable Card Cage.

Fiberlink® 3361 Receiver Specifications

Fiber Optic Input

SMPTE 297-2006 Labeling	PC-ABCD-1310-1550
Connector	LC receptacle, PC polish or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -21 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Serial Video BNC Output

Number of Outputs	1
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Audio Specifications

Unbalanced, 75 ohms, BNC per AES3id and SMPTE 276M	
Channels	8 (4pairs)
Output mute	Each audio output pair may be muted on a selectable basis

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	0-14	2.97 Gbps	30 km
	0-17	1.485 Gbps	48 km
	0-20	270 Mbps	50 km
Multimode (62.5u)	0-14	2.97 Gbps	.8 km
	0-17	1.485 Gbps	1 km
	0-20	270 Mbps	2.5 km
Multimode (50u)	0-14	2.97 Gbps	1 km
	0-17	1.485 Gbps	1.3 km
	0-20	270 Mbps	3 km

*Distance specifications are approximate, based upon connecting a 3360 Transmitter to a 3361 Receiver, and are not guaranteed. CSI cannot estimate or guarantee operating loss budgets when the 3360 Series is used with other, non-Fiberlink devices. Operating loss budget must not be exceeded.

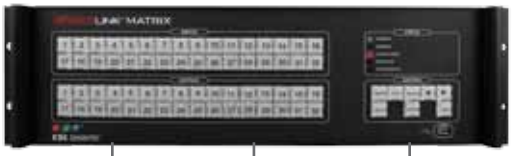
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3360 3G/HD/SD-SDI & 4 Pairs of AES/EBU Digital Audio Series

Smart & Simple 3G/HD/SD-SDI Signal Routing with Fiberlink Matrix

Fiberlink®
3360 3G/HD/SD-SDI with
AES/EBU Audio Transmitter

Fiberlink® Matrix
32x32 Optical Matrix



Perfect for Cross Converting!

Fiberlink®
3381 3G/HD/SD-SDI
with Analog Audio
Receiver

Fiberlink®
3353 3G/HD/SDI to
HDMI Receiver

Fiberlink®
3361 3G/HD/SD-SDI with AES/EBU
Digital Audio Receiver

Other 3G-SDI Products

Fiberlink Matrix

Fully configurable 32x32 Optical Matrix

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3360 3G/HD/SD-SDI & 4 Pairs of AES/EBU Digital Audio Series

GSA Schedule Contract GS-03F-5063C

UL NI2911 CE FC

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Fiberlink 3350 3G/HD/SD-SDI Series

SMPTE compliant 3G/HD/SD-SDI over one single mode or multimode fiber optic core

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Fiberlink® 3380 3G/HD/SD-SDI with 4 Channel of Analog Audio Series

Transmit 3G, HD or SD-SDI with the ability to embed/de-embed up to 4 channels (2 pairs) of analog audio.

Sales

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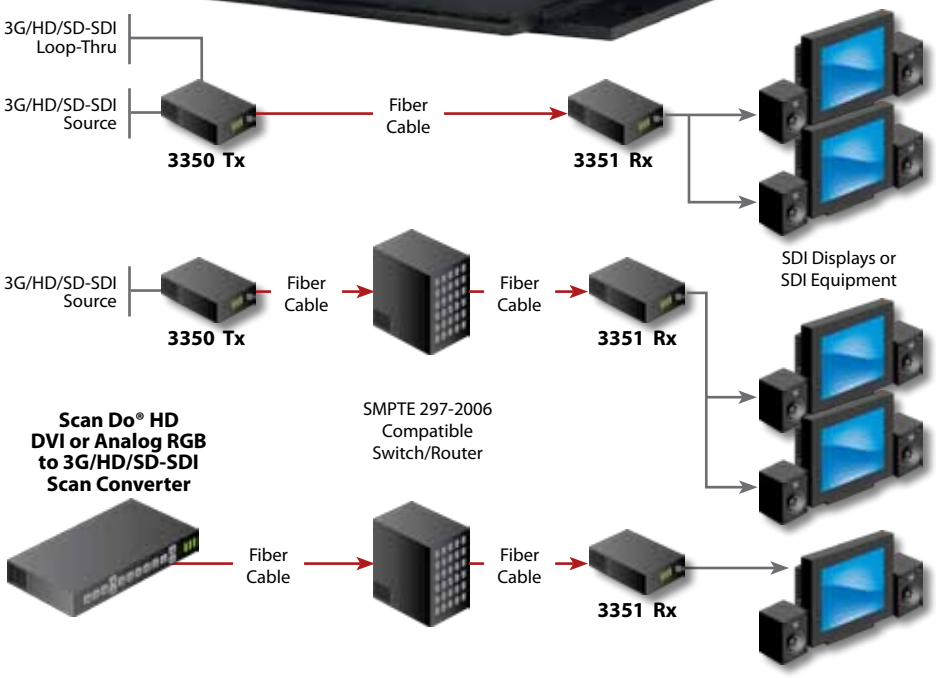
3350 3G/HD/SD-SDI Series

Broadcast quality 3G/HD/SD-SDI Transmission over one single mode or multimode fiber with full SMPTE compliance & embedded audio & data signal support.

Ideal Applications:

Broadcast or corporate studios, OB Vans, Rental & Staging, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!



Signal	Channels	Direction
3G/HD/SD-SDI	1	→

Features

- Signal is equalized and re-clocked prior to fiber optic transmission
- Transmitter features a re-clocked SDI loop through
- Receiver features two re-clocked SDI outputs
- Designed for fiber optic interoperability with other SMPTE 297-2006 fiber optic compliant devices up to 2.97 Gbps
- Immunity to pathological patterns over entire link budget and operating temperature range
- Compliant with SMPTE 259M-2006, 292-2006, 424M-2006, 297-2006
- Supports transmission of SMPTE 305M-2005, 310M-2004, 344M-2000, DVB-ASI
- Supports both Single Mode and Multimode (62.5u & 50u) fiber types
- Supports 3G/HD/SD-SDI inputs with or without embedded audio and data
- 14 dB Optical Link Budget @ 2.97 Gbps
- Wide operating temperature range: -10° C to +50° C
- Available in Box and Card versions
- Card version compatible with the Fiberlink® 6000A Rack Card Cage
- Designed and Manufactured in the USA by CSI

Ordering Information

Part Number	Description	Fiber Cores
3350-x7z	Transmitter	1
3351-x7z	Receiver	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Part Number Suffix Codes:

x:	B	Box Version	***z:***	L	LC Connector
	C	Card Version		S	ST Connector

Sales

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Fiberlink® 3350 Transmitter Specifications

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	19.4 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 297-2006, 424M-2006, 305M, 310M, 344M, DVB-ASI
Re-clocked Data Rates	270 Mbps (SMPTE 259M, DVB-ASI-270), 1.485 Gbps (SMPTE 292), 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

Serial Video BNC Loop-Through Output

Number of Loop-Throughs	1
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Optical Output

SMPTE 297-2006 Labeling	L-PC-ABCD-1310
Connector	LC receptacle, PC polish or ST
Wavelength	1310nm (nominal)
Emmiter Type	FP Laser
Output Power *(nominal)*	-3.5 dBm at 270 Mbps; -3.5 dBm at1.485 Gbps; -3.5 dBm at 2.97 Gbps
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps
CWDM Capable	Yes, Contact Sales

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3350 3G/HD/SD-SDI Series

Fiberlink®
3350 Transmitter

The 3350 Transmitter provides a convenient re-clocked and equalized 3G/HD/SD-SDI Loop-Through!

Universal Power Supply makes the 3350 Series compatible with any region!

Compact enclosure makes installation in tight or prohibitive spaces a snap!

The 3351 Receiver delivers pristine output with two re-clocked 3G/HD/SD-SDI outputs!

Fiberlink®
3351 Receiver

The Fiberlink® 3350 Series is available in a card version that is compatible with the Fiberlink® 6000A Rackmountable Card Cage.

Fiberlink® 3351 Receiver Specifications

Fiber Optic Input

SMPTE 297-2006 Labeling	PC-ABCD-1310-1550
Connector	LC receptacle, PC polish or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -21 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Serial Video BNC Outputs

Number of Outputs	2
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Fiberlink® 3350 Series General Specifications

Indicators	Power, Data Rate lock (3G, HD, SD/DVB-ASI) Alarm (Card Version Only)
Box Version Dimensions	5.21 x 3.50 x 1.15 (in) 133 x 89 x 30 (mm)
Weight	6.9 ounces, 196 grams
Slots in 6000A Card Cage	1
Power	9-24 volts, AC or DC, 3350: 1.6 watts, 5.46 BTU/Hr 3351: 1.4 watts, 4.78 BTU/Hr
Operating Temperature	-10° C to +50° C

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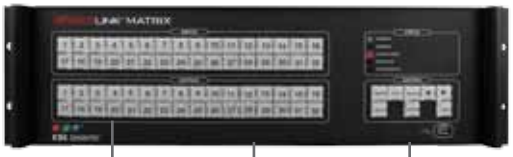
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3350 3G/HD/SD-SDI Series

Smart & Simple 3G/HD/SD-SDI Signal Routing with Fiberlink Matrix

Fiberlink®
3350 Transmitter

Fiberlink® Matrix
32x32 Optical Matrix



Fiberlink®
3351 Receiver

Fiberlink®
3351 Receiver

Fiberlink®
3351 Receiver

Learn more about the Fiberlink® Matrix at commspecial.com

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	0-14	2.97 Gbps	30 km
	0-17	1.485 Gbps	48 km
	0-20	270 Mbps	50 km
Multimode (62.5u)	0-14	2.97 Gbps	.8 km
	0-17	1.485 Gbps	1 km
	0-20	270 Mbps	2.5 km
Multimode (50u)	0-14	2.97 Gbps	1 km
	0-17	1.485 Gbps	1.3 km
	0-20	270 Mbps	3 km

*Distance specifications are approximate, based upon connecting a 3350 Transmitter to a 3351 Receiver, and are not guaranteed. CSI cannot estimate or guarantee operating loss budgets when the 3350 Series is used with other, non-Fiberlink devices. Operating loss budget must not be exceeded.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3350 3G/HD/SD-SDI Series

GSA Schedule Contract GS-03F-5063C

Other 3G-SDI Products

Fiberlink Matrix

Fully configurable 32x32 Optical Matrix

Fiberlink 3360 3G/HD/SD-SDI & 4 Pairs of AES/EBU Digital Audio Series

SMPTE compliant 3G/HD/SD-SDI with 4 Pairs (8 Channels) of AES/EBU Digital Audio Embedding over one fiber

Scan Do® HD

Computer Video to 3G/HD/SD-SDI Scan Converter

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

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info@commspecial.com

UPDATED 4/1/2011

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Made in the USA

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

SDI Beamer Series

Broadcast quality 3G/HD/SD-SDI Transmission over one single mode or multimode fiber with full SMPTE compliance using internal battery or external power.

Perfect for Broadcast or corporate studios, Broadcasting in the field, OB Vans, Rental & Staging, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, and more!

Compatible with all other CSI SDI Fiberlink® and Copperlink™ products

Compatible with CSI's Fiberlink® Matrix

Wide power supply options: internal 9 volt battery, external DC power, AC adapter

Locking ring power connector

Glitch-less battery backup when using external power source and internal 9 volt battery

First fiber optic link with optional internal battery operation!

Wide operating temperature range of -10° C to +50° C

Small, lightweight design

Equalized transmitter input and reclocked receiver output

Supports 3G/HD/SD-SDI and DVB-ASI transmission

SMPTE compliant electrical and optical inputs and outputs insures interoperability

Supports both multimode and single mode fibers

Immunity to pathological patterns

Exclusive CSI optical circuit design for unmatched performance

Wide range optical link budget

Industry preferred ST optical connector with chain-attached ST dust cap

CSI Communications Specialties, Inc.

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info@commspecial.com

Fiberlink® SDI Beamer 3112 Transmitter Specifications

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	19.4 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 297-2006, 424M-2006, 305M, 310M, 344M, DVB-ASI
Re-clocked Data Rates	270 Mbps (SMPTE 259M, DVB-ASI-270), 1.485 Gbps (SMPTE 292), 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

Optical Output

Connector	ST, with chain-attached dust cap
Wavelength	1310nm (nominal)
Emmiter Type	FP Laser
Output Power	-8 dBm Min (Single Mode) -3 dBm Min (Multimode 50u/62.5u)

Fiberlink® SDI Beamer 3113 Receiver Specifications

Fiber Optic Input

Connector	ST, with chain-attached dust cap
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-18 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -20 dBm at 270 Mbps;
Maximum Input Power	0 dBm

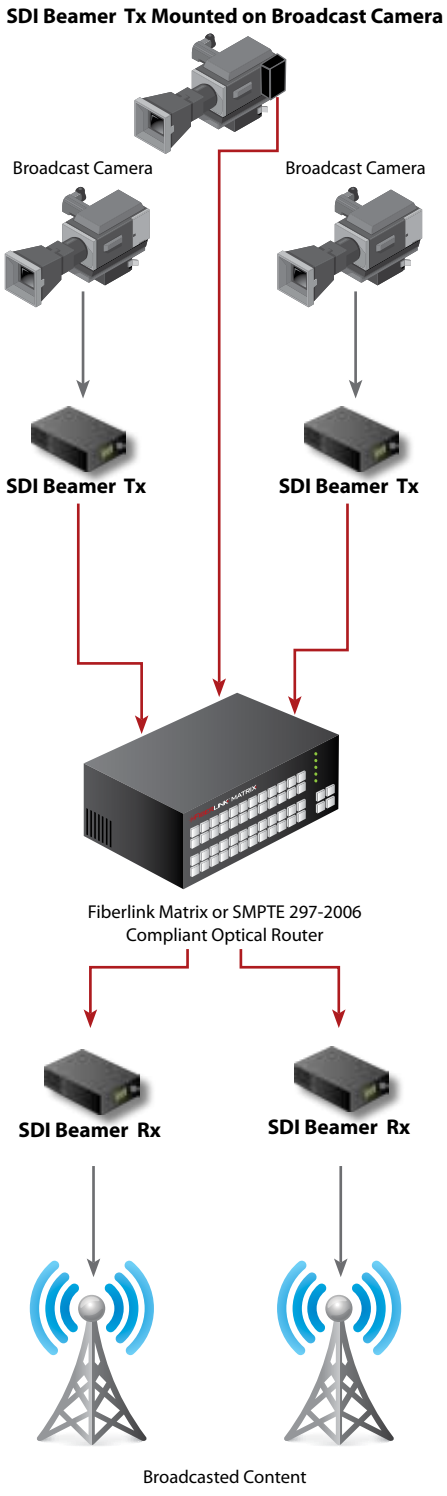
Serial Video BNC Output

Number of Outputs	1
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

SDI Beamer Series

SDI Beamers In The Field



Fiberlink® SDI Beamer Series General Specifications

Indicator	Power/Battery
Switch	Internal Battery On/Off
Power	External 9-24 volts DC or user supplied internal 9 volt battery. Internal battery can be used for glitch-free backup to external power source or battery only operation.
Power Dissipation	Transmitter: 1.20 Watts, 4.09 BTU/hr Receiver: 1.20 Watts, 4.09 BTU/hr
Power Connector	Coaxial type with locking threads; 5.5mm O.D., 2.1mm I.D.
Operating Temperature	-10º C to +50º C
Dimensions	2.4 x 4.47 x 1.06 (in) 60.96 x 113.53 x 26.92 (mm)
Weight	4.23 oz. with batt., 2.60 oz without batt.
Approximate Internal Battery Life	5 hours with Ultralife Lithium battery 3 hours, 30 minutes with Lithium battery 1 hour, 50 minutes with Advanced Alakaline battery 1 hour, 30 minutes with Alakaline battery
MTBF	175,000 Hours

Fiberlink® PDPS-4 Power Supply Specifications

Safety Approvals	UL/cUL, GS, RCM, CCC, PSE
Power Input	90-264 Vac universal input
Connector	DC coaxial connector with locking ring
DC Output Rating	12 Vdc, 500mA, regulated
Other Features	Interchangeable AC Blades

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	0-10	2.97 Gbps	10 km
	0-12	1.485 Gbps	15 km
	0-12	270 Mbps	15 km
Multimode (62.5u)	0-15	2.97 Gbps	.8 km
	0-17	1.485 Gbps	1 km
	0-17	270 Mbps	1.5 km
Multimode (50u)	0-15	2.97 Gbps	1 km
	0-17	1.485 Gbps	1.3 km
	0-17	270 Mbps	2 km

*Distance specifications are approximate, based upon connecting a 3112 Transmitter to a 3113 Receiver, and are not guaranteed. CSI cannot estimate or guarantee operating loss budgets when the SDI Beamer Series is used with other, non-Fiberlink devices. Operating loss budget must not be exceeded.

FIBERLINK®
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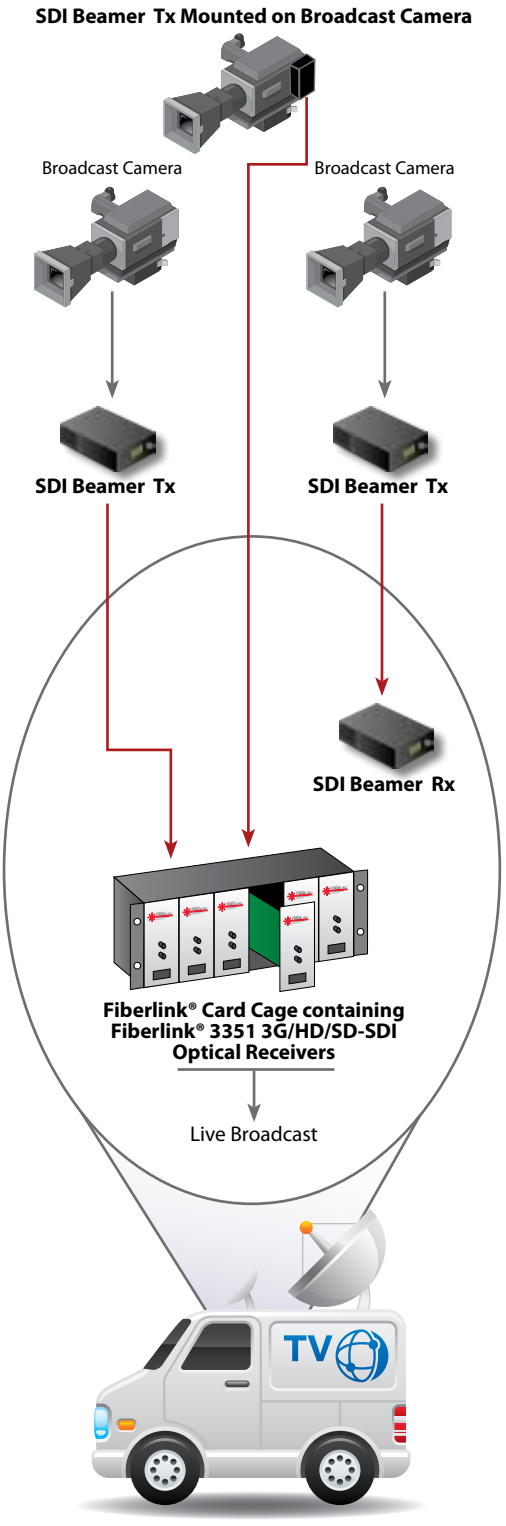
SDI Beamer Series

SDI Beamers with an OB Van



Ordering Information

Part Number	Description	Fiber Cores
3112	Transmitter	1
3113	Receiver	1
3115-pp	Kit: Includes Transmitter, Receiver, two PDPS-4's and two 9V Lithium Batteries	
PDPS-4-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
UK - United Kingdom
EU - Europe
CN - China

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

SDI Beamer Series

Other 3G-SDI Products

Fiberlink Matrix

Fully configurable 32x32 Optical Matrix

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

Fiberlink 3360 3G/HD/SD-SDI & 4 Pairs of AES/EBU Digital Audio Series

SMPTE compliant 3G/HD/SD-SDI with 4 Pairs (8 Channels) of AES/EBU Digital Audio Embedding over one fiber

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Scan Do® HD

Computer Video to 3G/HD/SD-SDI Scan Converter

Sales

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info@commspecial.com

UPDATED 11/29/2012

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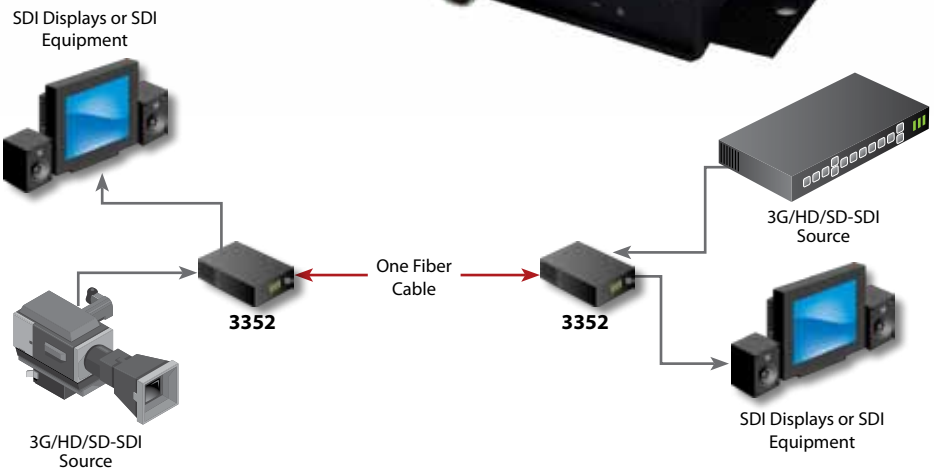
Made in the USA

3352 Bidirectional 3G/HD/SD-SDI Transceiver Series

Bidirectional broadcast quality 3G/HD/SD-SDI transmitted over one fiber. One independent 3G/HD/SD-SDI signal in each direction!

Ideal Applications:

Broadcast or corporate studios, OB Vans, Rental & Staging, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!



Signal	Channels	Direction
3G/HD/SD-SDI	2	⟷

Features

Transmit two independent 3G/HD/SD-SDI signals in opposite directions over one single mode fiber.

Unique design uses the same transceiver model at each end of the fiber.

Signals are equalized and re-clocked prior to fiber optic transmission

Transmitter section features a re-clocked SDI loop through

Receiver section features two re-clocked, non-inverting, independently buffered SDI outputs

Immunity to pathological patterns over entire link budget and operating temperature range

Compliant with SMPTE 259M-2006, 292-2006, 424M-2006

Supports transmission of SMPTE 305M-2005, 310M-2004, 344M-2000, DVB-ASI

Supports 3G/HD/SD-SDI inputs with or without embedded audio and data

8 dB Optical Link Budget @ 2.97 Gbps

Wide operating temperature range: -10° C to +50° C

Available in Box and Card versions

Card version compatible with the Fiberlink® 6000A Rack Card Cage

Designed and Manufactured in the USA by CSI

Ordering Information

Part Number	Description	Fiber Cores
3352-x7z	Transceiver	1 (Single Mode)
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Part Number Suffix Codes:

x:	B	Box Version	***z:***	L	LC Connector
	C	Card Version		S	ST Connector

Sales

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info@commspecial.com

Fiberlink® 3352 Transmitter Specifications

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	19.4 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 424M-2006, 305M, 310M, 344M, DVB-ASI
Re-clocked Data Rates	270 Mbps (SMPTE 259M, DVB-ASI-270), 1.485 Gbps (SMPTE 292), 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

Serial Video BNC Loop-Through Output

Number of Loop-Throughs	1
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Optical Output

Connector	LC receptacle, PC polish or ST
Wavelength	1310nm (nominal)
Emmiter Type	FP Laser
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3352 Bidirectional 3G/HD/SD-SDI Transceiver Series

**Fiberlink®
3352 Transceiver**

The 3352 Transmitter section provides a convenient re-clocked and equalized 3G/HD/SD-SDI Loop-Through!

The 3352 Receiver section delivers pristine output with two re-clocked, non-inverting, independently buffered 3G/HD/SD-SDI outputs!

**Fiberlink®
3352 Transceiver**

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

The Fiberlink® 3352 Series is available in a card version that is compatible with the Fiberlink® 6000A Rackmountable Card Cage.

Fiberlink® 3352 Receiver Specifications

Fiber Optic Input

Connector	LC receptacle, PC polish or ST
Wavelength	1100 - 1620 nm
Maximum Input Power	0 dBm

Serial Video BNC Outputs

Number of Outputs	2, Non-inverting, Independently Buffered
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Fiberlink® 3352 Series General Specifications

Indicators	Power, Data Rate lock (3G/HD, SD/DVB-ASI) Alarm (Card Version Only)
Box Version Dimensions	6.5 W x 1.15 H x 6 L (inches) 165 W x 29 H x 152 L (mm)
Weight	12.3 ounces, 382 grams
Slots in 6000A Card Cage	2
Power	9-24 volts, AC or DC, 3.25 watts, 11.08 BTU/Hr
Operating Temperature	-10° C to +50° C
MTBF	145,000 Hours

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	0-8	2.97 Gbps	20 km
	0-11	1.485 Gbps	25 km
	0-11	270 Mbps	30 km

*Distance specifications are approximate and are not guaranteed. Operating loss budget must not be exceeded.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3352 Bidirectional 3G/HD/SD-SDI Transceiver Series

Fiberlink®
3352 Transceiver

One Fiber.

Two 3G/HD/SD-SDI Signals.

Same Transceiver Unit at Each End of the Fiber!

Fiberlink®
3352 Transceiver

Other 3G-SDI Products

Fiberlink Matrix

Fully configurable 32x32 Optical Matrix

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3352 Bidirectional 3G/HD/SD-SDI Transceiver Series

GSA Schedule Contract GS-03F-5063C

Fiberlink 3360 3G/HD/SD-SDI & 4 Pairs of AES/EBU Digital Audio Series

SMPTE compliant 3G/HD/SD-SDI with 4 Pairs (8 Channels) of AES/EBU Digital Audio Embedding over one fiber

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

Scan Do® HD

Computer Video to 3G/HD/SD-SDI Scan Converter

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

Sales

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Made in the USA

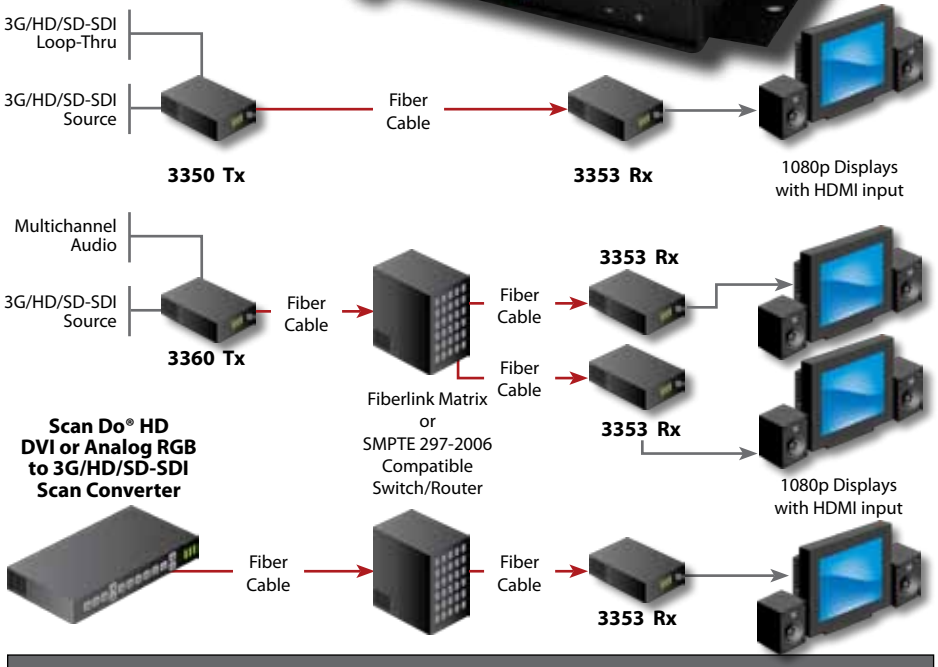
3353 3G/HD/SD-SDI to HDMI Receiver with SDI Output

Broadcast quality 3G/HD/SD-SDI Transmission over one single mode or multimode fiber with full SMPTE compliance to HDMI & 3G/HD/SD-SDI baseband output.

Ideal Applications:

Confidence monitoring, broadcast or corporate studios, OB trucks, digital signage, rental and staging, auditoriums, stadiums and theaters, large venue projector installations, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Signal	Channels	Direction
3G/HD/SD-SDI (Fiber) to HDMI & Stereo Audio & 3G/HD/SD-SDI (Copper)	1	→



Features

- Convert 3G/HD/SD-SDI with embedded audio to HDMI with audio pair selection
- Supports all SD and HD resolutions to 1080p/60
- Fully SMPTE 297-2006 compliant fiber input
- HDMI embedded and stereo line level outputs (if audio present in SDI stream)
- Re-clocked SDI BNC output allows for continuous 3G/HD/SD-SDI signal distribution
- User selection from up to 8 audio channel pairs for multilingual or multimessage support
- Automatic selection of output resolution - no scaling
- ST and LC fiber connector options
- Supports single mode and multimode fiber types.
- Small compact design
- Compatible with Fiberlink 3350, 3360 & 3380 Series, Fiberlink Matrix and Scan Do® HD's optical output.
- All Fiberlink® 3G/HD/SD-SDI products are compliant with SMPTE 297-2006 and has the ability to operate seamlessly with Fiberlink® Matrix and other SMPTE 297-2006 fiber optic compliant devices.
- All Fiberlink® 3G/HD/SD-SDI products are immune to pathological signals over the entire budget link and operating temperature range.

Ordering Information

Part Number	Description	Fiber Cores
3353-B7z	Receiver	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America AU - Australia EU - Europe
JP - Japan UK - United Kingdom

Part Number Suffix Codes:

z: L LC Connector
S ST Connector

Sales

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Fiberlink® 3353 Receiver Specifications

Fiber Optic Input

SMPTE 297-2006 Labeling	PC-ABCD-1310-1550
Connector	LC receptacle, PC polish or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -21 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Video Output

Number of Outputs	1
Connector Type	HDMI Female
Signal Format	Single link HDMI with embedded audio, RGB or YCrCb as negotiated with display
Resolutions Supported	SD: 483i/59.94, 576i/50 ED: 480p/59.94/60, 576p/50 HD: 720p/50/59.94/60 1080i/50/59.94/60 1080p/23.98/24/25/29.97/30 1080p/23.98PsF/24PsF/25PsF/29.97PsF/30PsF 3G: 1080p/50/59.94/60

Note: *Resolutions actually displayed on the HDMI monitor connected to the HDMI output will depend on the specific resolutions and refresh rates supported by that particular monitor.*

3G/HD/SD-SDI Output	Standard, Follows fiber optic input
HDCP Compatibility	Yes. SDI signals, by definition, are not encrypted.

Audio Output

Number of Audio Channels	2 channels, unbalanced, line level 2 channels embedded in HDMI signal
Audio Connector	RCA Jacks
Switches	Front panel selection of one of 8 audio channel pairs on SDI signal to output

NOTE: Audio on HDMI and line level are available simultaneoulsy and extracted from audio embedded within SDI signal in accordance with SMPTE standards.

3G/HD/SD-SDI Output

Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps
Compliance	SMPTE 259M, 292, 424M-2006

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VIDEO, AUDIO & DATA OVER FIBER

3353 3G/HD/SD-SDI to HDMI Receiver with SDI Output

GSA Schedule Contract GS-03F-5063C

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

General Specifications

Indicators:
Power, Alarm, Data Rate Lock (3G, HD, ED, SD)

Box Version Dimensions:
6.5 W x 1.15 H x 6 L (inches)
165 W x 29 H x 152 L (mm)

Weight:
16 ounces, 453.5 grams

Power:
9-24 volts, AC or DC, 5.5 watts, 18.8 BTU/Hr

Operating Temperature:
-10° C to +50° C

MTBF:
44,000 Hours

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

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info@commspecial.com

UPDATED 7/12/2011

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Made in the USA

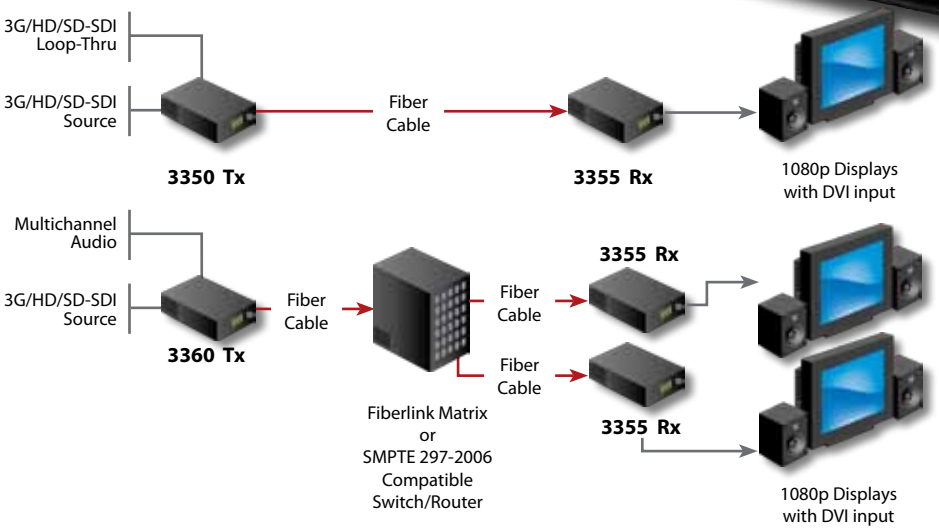
3355 3G/HD/SD-SDI to DVI Receiver with SDI Output

Broadcast quality 3G/HD/SD-SDI Transmission over one single mode or multimode fiber with full SMPTE compliance to DVI & 3G/HD/SD-SDI baseband output.

Ideal Applications:

Confidence monitoring, broadcast or corporate studios, OB trucks, digital signage, rental and staging, auditoriums, stadiums and theaters, large venue projector installations, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Signal	Channels	Direction
3G/HD/SD-SDI (Fiber) to DVI & Stereo Audio & 3G/HD/SD-SDI (Copper)	1	→



Features

- Convert 3G/HD/SD-SDI with embedded audio to DVI with audio pair selection
- Supports all SD and HD resolutions to 1080p/60
- Fully SMPTE 297-2006 compliant fiber input
- DVI and stereo line level outputs (if audio present in SDI stream)
- Re-clocked SDI BNC output allows for continuous 3G/HD/SD-SDI signal distribution
- User selection from up to 8 audio channel pairs for multilingual or multimessage support
- Automatic selection of output resolution - no scaling
- ST and LC fiber connector options
- Supports single mode and multimode fiber types.
- Small compact design
- Compatible with Fiberlink 3350, 3360 & 3380 Series, Fiberlink Matrix and Scan Do® HD's optical output.
- All Fiberlink® 3G/HD/SD-SDI products are compliant with SMPTE 297-2006 and has the ability to operate seamlessly with Fiberlink® Matrix and other SMPTE 297-2006 fiber optic compliant devices.
- All Fiberlink® 3G/HD/SD-SDI products are immune to pathological signals over the entire budget link and operating temperature range.

Ordering Information

Part Number	Description	Fiber Cores
3355-B7z	Receiver	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America AU - Australia EU - Europe
JP - Japan UK - United Kingdom

Part Number Suffix Codes:

z: L LC Connector
S ST Connector

Sales

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info@commspecial.com

Fiberlink® 3355 Receiver Specifications

Fiber Optic Input

SMPTE 297-2006 Labeling	PC-ABCD-1310-1550
Connector	LC receptacle, PC polish or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -21 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Video Output

Number of Outputs	1
Connector Type	DVI-I Female (Digital output only)
Signal Format	Single link DVI, RGB or YCrCb as negotiated with display
Resolutions Supported	SD: 483i/59.94, 576i/50 ED: 480p/59.94/60, 576p/50 HD: 720p/50/59.94/60 1080i/50/59.94/60 1080p/23.98/24/25/29.97/30 1080p/23.98PsF/24PsF/25PsF/29.97PsF/30PsF 3G: 1080p/50/59.94/60

Note: *Resolutions actually displayed on the DVI monitor connected to the DVI output will depend on the specific resolutions and refresh rates supported by that particular monitor.*

3G/HD/SD-SDI Output	Standard, Follows fiber optic input
HDCP Compatibility	Yes. SDI signals, by definition, are not encrypted.

Audio Output

Number of Audio Channels	2 channels, unbalanced, line level
Audio Connector	RCA Jacks
Switches	Front panel selection of one of 8 audio channel pairs on SDI signal to output

NOTE: Audio is extracted from audio embedded within SDI signal in accordance with SMPTE standards.

3G/HD/SD-SDI Output

Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps
Compliance	SMPTE 259M, 292, 424M-2006

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3355 3G/HD/SD-SDI to DVI Receiver with SDI Output

GSA Schedule Contract GS-03F-5063C

General Specifications

Indicators:
Power, Alarm, Data Rate Lock (3G, HD, SD)

Box Version Dimensions:
6.5 W x 1.15 H x 6 L (inches)
165 W x 29 H x 152 L (mm)

Weight:
16 ounces, 453.5 grams

Power:
9-24 volts, AC or DC, 5.5 watts, 18.8 BTU/Hr

Operating Temperature:
-10° C to +50° C

MTBF:
44,000 Hours

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

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info@commspecial.com

UPDATED 4/25/2012

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Made in the USA

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

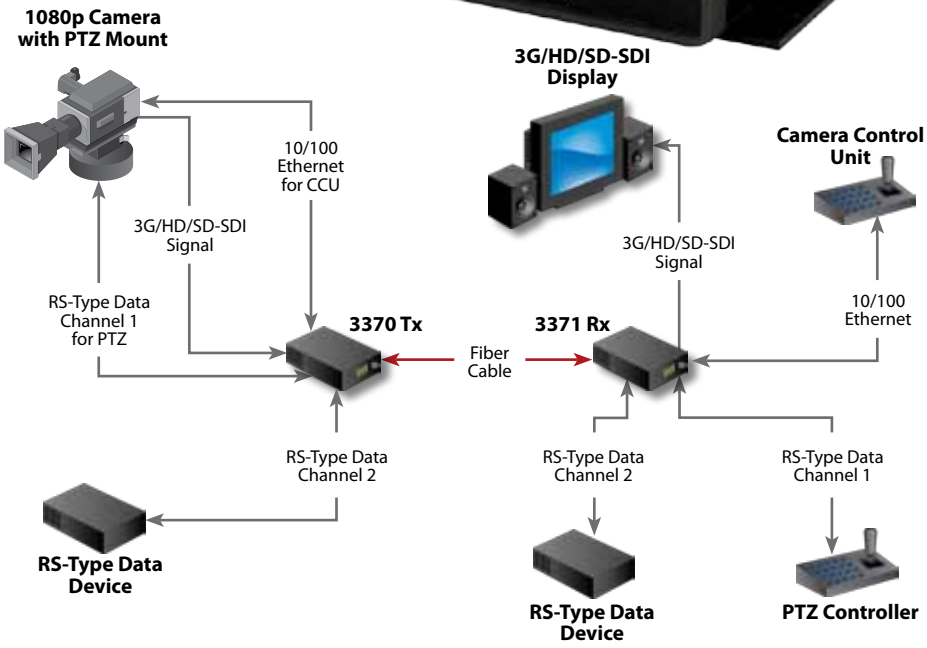
3370 3G/HD/SD-SDI & 2 Channels of RS-Type Data plus 10/100 Ethernet

Broadcast quality 3G/HD/SD-SDI & up to 2 channels of RS-Type Data plus 10/100 Base-T Ethernet over one single mode or two multimode fibers!

Ideal Applications:

Broadcast or corporate studios, OB Vans, Point-of-View Cameras, Rental & Staging, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Signal	Channels	Direction
3G/HD/SD-SDI	1	→
RS-Type Data	2	↔
10/100 Ethernet	1	↔



Features

- Transmit up to 2 channels of bi-directional RS-Type data.
- Transmit 10/100 Base-T Ethernet
- All data and ethernet channels available simultaneously
- SDI signal is equalized and re-clocked prior to fiber optic transmission
- Receiver features a re-clocked SDI output
- Immunity to pathological patterns over entire link budget and operating temperature range
- Compliant with SMPTE 259M-2006, 292-2006, 424M-2006, 276M
- Supports one single mode fiber or two multimode fibers
- Supports 3G/HD/SD-SDI inputs with or without embedded audio and data
- 14 dB Optical Link Budget @ 2.97 Gbps
- Wide operating temperature range: -10° C to +50° C
- Available in Box and Card versions
- ST or LC connectors available

Ordering Information

Part Number	Description	Fiber Cores
3370-x7z	Transmitter	1 (SM)
3371-x7z	Receiver	1 (SM)
3372-x7z	Transmitter	2 (MM)
3373-x7z	Receiver	2 (MM)
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Part Number Suffix Codes:

x:	B	Box Version	***z:***	L	LC Connector
	C	Card Version		S	ST Connector

Sales

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Fiberlink® 3370 Series General Specifications

Number of Fibers Required	1 fiber for single mode fiber 2 fibers for multimode fiber
Indicators	Power, Data Rate lock (3G, HD, SD), Alarm (card version only), RS-Data Channel 1, RS-Data Channel 2 & Ethernet LEDs on RJ-45 Connector
Box Version Dimensions	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots in 6000A Card Cage	2
Power	9-24 volts, AC or DC 3370: 4.8 watts, 16.4 BTU/Hr 3371: 4.65 watt s, 15.87 BTU/Hr
Operating Temperature	-10º C to +50º C
MTBF:	36,000 Hours

Ethernet Specifications:

Port:	10/100 Base-T, RJ-45 connector, Configured as MDI
Speed:	10 Mbps & 100 Mbps Ethernet, Switch Selectable

Data Specifications:

Data Channels	2 Channels, Bi-Directional
Data Bandwidth	DC to 115 Kb/sec, max.
Control Format	Switch selectable RS-232, RS-422 & RS-485 (4 wire or 2 wire);
Protocols	NRZ, NRZI, RZ, Manchester, Bi-phase
Signal Connectors:	Removable terminal block

Fiberlink® 3370 Transmitter Specifications

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	270 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 297-2006, 424M-2006
Re-clocked Data Rates	270 Mbps (SMPTE 259M), 1.485 Gbps (SMPTE 292), 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3370 3G/HD/SD-SDI & 2 Channels of RS-Type Data plus 10/100 Ethernet

Fiberlink® 3370 Transmitter

Front Panel LEDs quickly reveal the 3370's Video & Data input status

Dip Switches allow for quick configuration of your data preferences

The 3371 Receiver Data LEDs quickly reveal which channels have data present

Available as a box or a card

Fiberlink® 3371 Receiver

The Fiberlink® 3370 Series is available in a card version that is compatible with the Fiberlink® 6000A Rackmountable Card Cage.

Fiberlink® 3370 Transmitter Specifications

Fiber Optic Output

Connector	LC or ST
Wavelengths Used	1310nm, 1490nm, 1550nm
Emmiter Type	FP Laser
Output Power *(nominal)*	-4.5 dBm
SDI Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Fiberlink® 3371 Receiver Specifications

Fiber Optic Input

Connector	LC or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -21 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Serial Video BNC Output

Number of Outputs	1
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	0-14	2.97 Gbps	30 km
	0-17	1.485 Gbps	48 km
	0-20	270 Mbps	50 km
Multimode (62.5u)	0-14	2.97 Gbps	.8 km
	0-17	1.485 Gbps	1 km
	0-20	270 Mbps	2.5 km
Multimode (50u)	0-14	2.97 Gbps	1 km
	0-17	1.485 Gbps	1.3 km
	0-20	270 Mbps	3 km

*Distance specifications are approximate, based upon connecting a 3370 Transmitter to a 3371 Receiver, and are not guaranteed. CSI cannot estimate or guarantee operating loss budgets when the 3370 Series is used with other, non-Fiberlink devices. Operating loss budget must not be exceeded.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3370 3G/HD/SD-SDI & 2 Channels of RS-Type Data plus 10/100 Ethernet

Accessories

Fiberlink® 6610 Visible Light Source

The Fiberlink® Visible Light Source provides a visible 650 nm laser output that can be used for identifying fiber breaks and individual fibers within fiber bundles, allowing for convenient, on-site testing of fiber networks during construction and maintenance procedures.

Fiberlink® 6615 Optical Power Meter

The Fiberlink® Optical Power Meter measures the power of optical signals at 850, 980, 1310 and 1550 nm wavelengths, allowing for convenient, on-site testing of fiber networks during construction and maintenance procedures. It can be used to measure the power of an optical signal reaching the receiving end of a fiber optic cable, as generated either by a transmitter unit or by a light source such as the 6620.

Fiberlink® 6620 Three Wavelength Light Source

The Fiberlink® Three Wavelength Light Source offers a laser output at wavelengths of 1310 and 1550 nm and VCSEL output at 850 nm, allowing for convenient, on-site testing of fiber networks during construction and maintenance procedures.

Other 3G-SDI Products

Fiberlink Matrix

Fully configurable 32x32 Optical Matrix

Fiberlink 3350 3G/HD/SD-SDI Series

SMPTE compliant 3G/HD/SD-SDI over one single mode or multimode fiber optic core

Scan Do® HD

Computer Video to 3G/HD/SD-SDI Scan Converter

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3370 3G/HD/SD-SDI & 2 Channels of RS-Type Data plus 10/100 Ethernet

GSA Schedule
Contract GS-03F-5063C

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

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Made in the USA

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

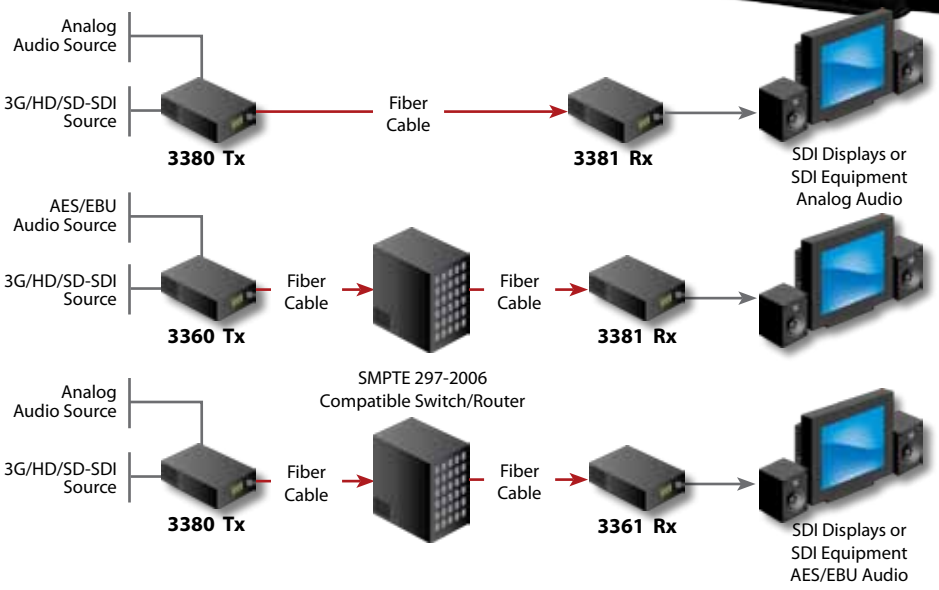
3380 3G/HD/SD-SDI & 4 Channels of Analog Audio Series

Broadcast quality 3G/HD/SD-SDI & Line Level Analog Audio transmission over one single mode or multimode fiber with full SMPTE compliance.

Ideal Applications:

Broadcast or corporate studios, OB Vans, Rental & Staging, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Signal	Channels	Direction
3G/HD/SD-SDI	1	→
Analog Audio	4 (2 Pairs)	→



Features

- Inserts up to 4 channels (2 pairs) of Analog Line Level audio
- Balanced and unbalanced audio support
- Transmitter can pass existing embedded audio or insert audio on a pair by pair basis
- Compatible with Fiberlink 3360 for conversion between digital and analog audio.
- Signal is equalized and re-clocked prior to fiber optic transmission
- Receiver features a re-clocked SDI output
- Designed for fiber optic interoperability with other SMPTE 297-2006 fiber optic compliant devices up to 2.97 Gbps
- Immunity to pathological patterns over entire link budget and operating temperature range
- Compliant with SMPTE 259M-2006, 292-2006, 424M-2006, 297-2006, 272M, 291M, 299-2008
- Supports both Single Mode and Multimode (62.5u & 50u) fiber types
- Supports 3G/HD/SD-SDI inputs with or without embedded audio and data
- 14 dB Optical Link Budget @ 2.97 Gbps
- Wide operating temperature range: -10° C to +50° C
- Available in Box and Card versions
- Available XLR breakout cables

Ordering Information

Part Number	Description	Fiber Cores
3380-x7z	Transmitter	1
3381-x7z	Receiver	1
PDPS-2-pp	Power Supply	
1252	DB-25M to 4 XLR-M 10 Foot Cable	
1253	DB-25M to 4 XLR-F 10 Foot Cable	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America AU - Australia EU - Europe
JP - Japan UK - United Kingdom

Part Number Suffix Codes:

x:	B	Box Version	***z:***	L	LC Connector
	C	Card Version		S	ST Connector

Sales

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Fiberlink® 3380 Series General Specifications

Indicators	Power, Data Rate lock (3G, HD, SD), Audio Status, Alarm (card version only)
Box Version Dimensions	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots in 6000A Card Cage	2
Power	9-24 volts DC or 24 volts AC 3380: 8.6 Watts, 29.3 BTU/Hr 3381: 10.3 Watts, 35.1 BTU/Hr
Operating Temperature	-10º C to +50º C
MTBF	39,000 Hours

Fiberlink® 3380/3381 Series Audio Specifications

Number of Audio Channels		4; Input balanced or unbalanced Output: balanced, unbalanced loads supported with a 6 dB loss
Embedding (3380)		Selectable by group & pair; SMPTE compliant
SDI Pre-Embedded Audio		All channels supported for pass-through Pairs may be passed or embedded and are selectable on pair by pair basis
De-Embedding (3381)		Selectable by group and channel Channels may be muted or outputted on a channel by channel basis
Frequency Response		20 Hz - 20 kHz, +0/-0.5 dB
Bits-per-Sample/Sampling Rate		24 bits; 48 kHz
Maximum Audio Level		+24 dBu
SNR (A-Weighted)		105 dB
THD+N		0.002%, 20 Hz - 20 kHz
Channel Phase Differential		±0.05º
Crosstalk		Min. 100 dB (1 kHz)
Input Impedance		600 Ohms terminated; >24 k Ohms unterminated
Output Impedance		50 Ohms
Switches	TX: TX/RX: TX: RX:	Dip switches to select input termination Select one of four groups Embed/Pass on a per-pair basis Output/Mute on a per-channel basis
Connector		DB-25F, TASCAM Configuration, Channels 1-4

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	0-14	2.97 Gbps	30 km
	0-17	1.485 Gbps	48 km
	0-20	270 Mbps	50 km
Multimode (62.5u)	0-14	2.97 Gbps	.8 km
	0-17	1.485 Gbps	1 km
	0-20	270 Mbps	2.5 km
Multimode (50u)	0-14	2.97 Gbps	1 km
	0-17	1.485 Gbps	1.3 km
	0-20	270 Mbps	3 km

*Distance specifications are approximate, based upon connecting a 3380 Transmitter to a 3381 Receiver, and are not guaranteed. CSI cannot estimate or guarantee operating loss budgets when the 3380 Series is used with other, non-Fiberlink devices. Operating loss budget must not be exceeded.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3380 3G/HD/SD-SDI & 4 Channels of Analog Audio Series

Front Panel LEDs quickly reveal the 3380's Video & Audio input status

Dip Switches allow for quick configuration of your audio embedding preferences and audio termination

Convenient Re-clocked 3G/HD/SD-SDI BNC Loop

Industry Standard DB-25F, TASCAM Configuration

Available with ST or LC Optical Connectors

The Fiberlink® 3380 Series is available in a card version that is compatible with the Fiberlink® 6000A Rackmountable Card Cage.

Fiberlink® 3380 Transmitter Specifications

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	270 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 424M-2006
Re-clocked Data Rates	270 Mbps (SMPTE 259M), 1.485 Gbps (SMPTE 292), 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

Optical Output

SMPTE 297-2006 Labeling	L-PC-ABCD-1310
Connector	LC receptacle, PC polish or ST
Wavelength	1310nm (nominal)
Emmiter Type	FP Laser
Output Power *(nominal)*	-3.5 dBm at 270 Mbps; -3.5 dBm at 1.485 Gbps; -3.5 dBm at 2.97 Gbps
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Fiberlink® 3381 Receiver Specifications

Fiber Optic Input

SMPTE 297-2006 Labeling	PC-ABCD-1310-1550
Connector	LC receptacle, PC polish or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -21 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Serial Video BNC Output

Number of Outputs	1
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

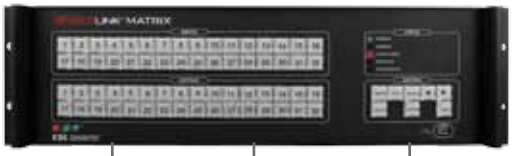
3380 3G/HD/SD-SDI & 4 Channels of Analog Audio Series

Smart & Simple 3G/HD/SD-SDI Signal Routing with Fiberlink Matrix

Fiberlink®
3380 3G/HD/SD-SDI with Analog Audio Transmitter

Perfect for Cross Converting!

Fiberlink® Matrix
32x32 Optical Matrix



Fiberlink®
3381 3G/HD/SD-SDI with Analog Audio Receiver

Fiberlink®
3353 3G/HD/SDI to HDMI Receiver

Fiberlink®
3361 3G/HD/SD-SDI with AES/EBU Digital Audio Receiver

Other 3G-SDI Products

Fiberlink Matrix

Fully configurable 32x32 Optical Matrix

Fiberlink 3350 3G/HD/SD-SDI Series

SMPTE compliant 3G/HD/SD-SDI over one single mode or multimode fiber optic core

Fiberlink® 3360 3G/HD/SD-SDI with 4 Pairs of AES/EBU Audio Series

Transmit 3G, HD or SD-SDI with the ability to embed/de-embed up to 8 channels (4 pairs) of AES/EBU digital audio.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3380 3G/HD/SD-SDI & 4 Channels of Analog Audio Series

GSA Schedule Contract GS-03F-5063C

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3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

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Made in the USA

Video, Audio and Two Way Data

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Flex System

Any combination of video, audio, data and contact closure signals, transmitted digitally in one or both directions, over one or two fibers

Ideal Applications:

Broadcast, Cable, Satellite, Industrial Security

Signal	Channels	Direction
Video	1	↔ or →
Audio	2 or 4	↔ or →
Data or Contact	1 or 2	↔ or →

Features

Each unit is custom-ordered and assembled.

Each transmitter, receiver and transceiver unit is sold separately. Power supplies are also sold separately.

Signal options include:
- One channel of video in one or both directions
- Two or four independent audio channels; four in one direction or two in each direction
- Two slots for either data or contact closure signals in one or both directions

Transmits over multimode or single mode fiber at 850, 1310 or 1550 nm

Bi-directional systems available in one or two-fiber versions

Pure digital processing and transmission

Video channel is compatible with NTSC, PAL or SECAM video standards

Audio channels may be user-configured independently to have either balanced or unbalanced inputs and outputs

Indicator LEDs monitor signals and power

Wide range power supply allows operation from low voltage AC and DC sources

Card version fills two slots in 6000A rack

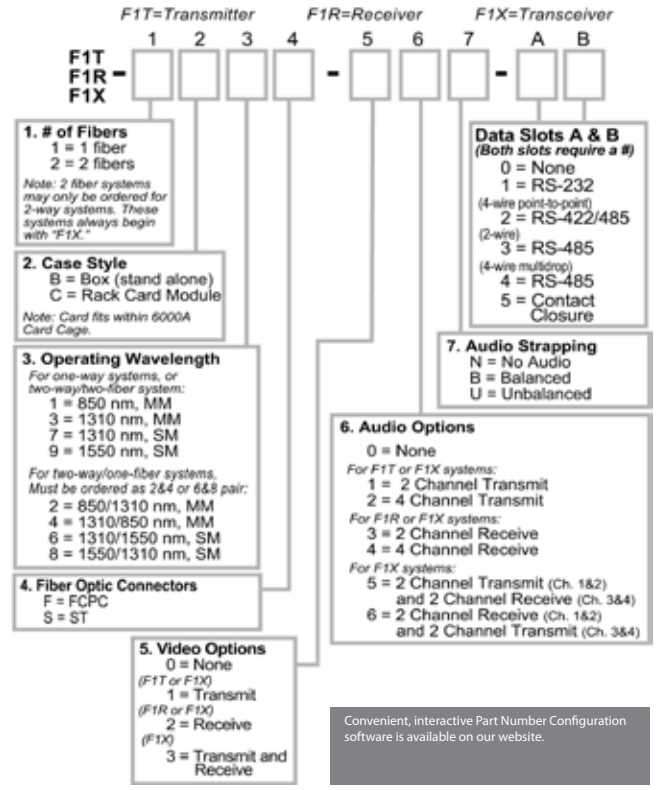
Transmitter, receiver and transceiver units must each be ordered separately. Use the Part Number Configuration Chart to generate a specific part number for each unit.

In addition, each box unit requires an external power supply. Power supplies should be specified as follows:

Power Supply: PDPS-1-pp

Power Supply Suffix Codes: (Line Cord)	
pp:	
NA	North America
AU	Australia
EU	Europe
JP	Japan
UK	United Kingdom

Flex System Configuration Example


F1T=Transmitter
F1R=Receiver
F1X=Transceiver
1 2 3 4 5 6 7 A B
F1T
F1R
F1X
1. # of Fibers
1 = 1 fiber
2 = 2 fibers
Note: 2 fiber systems may only be ordered for 2-way systems. These systems always begin with "F1X."
2. Case Style
B = Box (stand alone)
C = Rack Card Module
Note: Card fits within 6000A Card Cage.
3. Operating Wavelength
For one-way systems, or two-way/two-fiber system:
1 = 850 nm, MM
3 = 1310 nm, MM
7 = 1310 nm, SM
9 = 1550 nm, SM
For two-way/one-fiber systems. Must be ordered as 2&4 or 6&8 pair:
2 = 850/1310 nm, MM
4 = 1310/850 nm, MM
6 = 1310/1550 nm, SM
8 = 1550/1310 nm, SM
4. Fiber Optic Connectors
F = FCPC
S = ST
5. Video Options
0 = None
(F1T or F1X)
1 = Transmit
(F1R or F1X)
2 = Receive
(F1X)
3 = Transmit and Receive
6. Audio Options
0 = None
For F1T or F1X systems:
1 = 2 Channel Transmit
2 = 4 Channel Transmit
For F1R or F1X systems:
3 = 2 Channel Receive
4 = 4 Channel Receive
For F1X systems:
5 = 2 Channel Transmit (Ch. 1&2) and 2 Channel Receive (Ch. 3&4)
6 = 2 Channel Receive (Ch. 1&2) and 2 Channel Transmit (Ch. 3&4)
7. Audio Strapping
N = No Audio
B = Balanced
U = Unbalanced
Data Slots A & B
(Both slots require a #)
0 = None
1 = RS-232
(4-wire point-to-point)
2 = RS-422/485
(2-wire)
3 = RS-485
(4-wire multidrop)
4 = RS-485
5 = Contact Closure

Convenient, interactive Part Number Configuration software is available on our website.

Sales

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Video Specifications

Number of Channels	1, one-way or bidirectional
Frequency Response	20 Hz to 8 MHz (+0, -3 dB) 50 Hz to 5 MHz (+/- 0.2 dB)
Input/Output Impedance	75 Ohms
Input/Output Voltage:	1 V p-p nom., 1.3 V p-p max.
Signal-to-Noise Ratio	60 dB (CCIR weighted)
Differential Gain and Phase	1% typical; 1° typical
Video Connectors	BNC

Audio Specifications

Number of Audio Channels	2 or 4 one-way or 2 bidirectional (balanced or unbalanced)
Frequency Response	20 Hz to 20 kHz (+0, -3 dB)
Input/Output Impedance	600 Ohms terminated; >24 k Ohms unterminated
Input/Output Voltage	0 dBu nom. +10 dBu max.
Signal-to-Noise Ratio	85 dB
THD+N	0.1% typical
Audio Connectors	Removeable terminal block

Data/PTZ and Contact Closure Specifications

Number of Channels	2, which may be used for 2 data channels, 2 contact closure channels, or one of each
Data Protocols Supported	RS-232, RS-422, RS-485 (2 or 4-wire)
Data Rate	DC to 115 kb/s
Contact Closure Input	Dry contact or TTL level referenced to GND
Contact Closure Output	Isolated reed relay contacts; 115 Volts AC; 50/60 Hz @ 0.2 A or 24 Volts DC @ 1 A
Data and Contact Closure Connectors	Removeable terminal block

General Specifications

LED Indicators	Power; Signal Present (Link); Alarm LED (card version only)
Power Requirements*	9-24 volts AC or DC, 6 watts
Operating Temperature Range	-35° to +75° C
Optical Connectors	ST or FCPC
Physical Size	5.1 W x 1.25 H x 7.25 L (inches) 127 W x 32 H x 184 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	2

* For operation from 95-250VAC, 50/60Hz, a PDPS-1 plug-in adapter is required.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Flex System

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
2-way over 2 fibers and 1-way systems		
850 MM	0-15	0-3
1310 MM	0-7	0-5
1310 SM	0-28	0-70
1550 SM	0-26	0-85
2-way over 1 fiber systems		
850/1310 MM	0-5	0-3
1310/850 MM	0-5	0-3
1310/1550 SM	0-25	0-60
1550/1310 SM	0-25	0-60

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

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Made in the USA

Video and Two Way Data

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

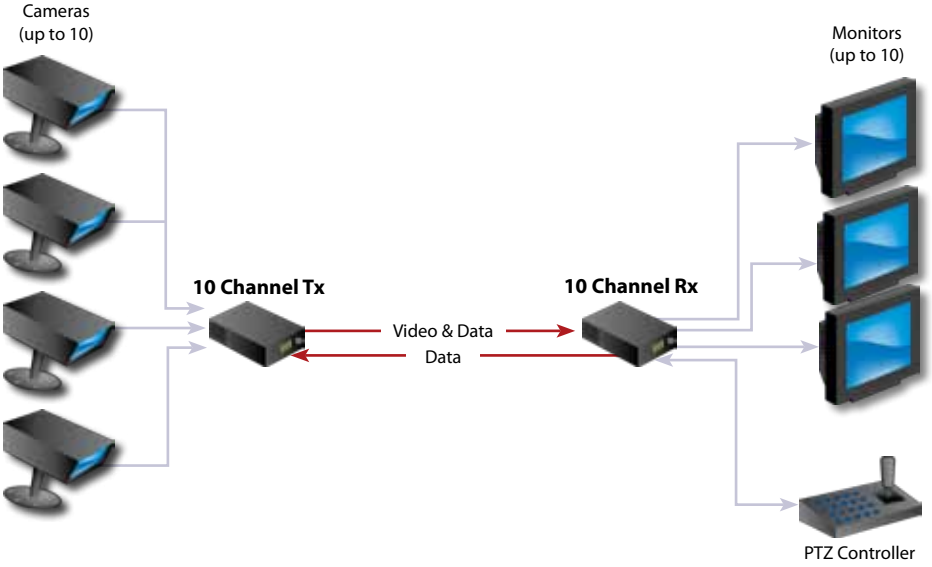
3334 Video Multiplexer Series with Two-Way Data

10 Channel Composite Video Multiplexer with bi-directional data over one single mode or multimode fiber

Ideal Applications:

Security, Remote Monitoring, Command and Control Centers

Signal	Channels	Direction
Video	10	→
Data	1	↔



Features

- Multiplexes up to 10 composite video signals on one fiber
- Supports one bi-directional data channel for RS-232, RS-424 or RS-485
- Versions for multimode or single mode fiber
- No adjustments; pure digital processing and transmission
- Full color, uncompressed, real-time transmission in NTSC, PAL or SECAM
- Built-in diagnostic LEDs for each channel and a loss of signal/broken fiber alarm
- Internal, universal power supply with AC line cord
- One rack unit high (1.75 inches). Rackmount ears included with unit

Ordering Information

Part Number	Description	Fiber Cores
3334-Sy-pp	Transmitter	1
3335-Sy-pp	Receiver	1

Part Number Suffix Codes:

y: 7 - Single Mode
5 - Multimode

pp: NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

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Video Specifications

Number of Channels	10
Number of Fibers	1
Video Bandwidth (all channels at rated distance)	10 Hz - 6.5 MHz (-3 dB)
Video Input	1 volt p-p
Input/Outut Impedance	75 Ohms
Differential Gain	<1.5% typical
Differential Phase	<1 degree typical
Signal-to-Noise Ratio	>63 dB (CCIR weighting)
Video Connectors	BNC

Data Specifications

Number of Channels	1 (bi-directional)
Interfaces Supported	RS-232, RS-424, RS-485 2 Wire & 4 Wire Switch Selectable
Maximum Data Rate	100 Kbps
Protocols	NRZ, NRZI, RZ, Manchester, Bi-phase
Data Connectors	Screw Terminal Block

General Specifications

Operating Wavelength	Video & Data: 1310 nm Return Data (SM): 1550nm Return Data (MM): 850nm
Optical Connectors	ST
Operating Temperature	0 to +55 degrees C
Relative Humidity	10% - 90% (non-condensing)
Operating Power	95-250 VAC, 47-63 Hz
Size	1.75 H x 16.75 W x 10 D (inches) 44 H x 425 W x 254 D (mm)
Weight	Approx. 5.5 lbs; 2.5 kg
Fiberlink Matrix Compatibe	No

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3334 Video Multiplexer Series with 2-Way Data

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)**	Distance (km)
SM	0-18	50
MM (50u)	0-14	1.3
MM (62.5u)	0-18	1.0

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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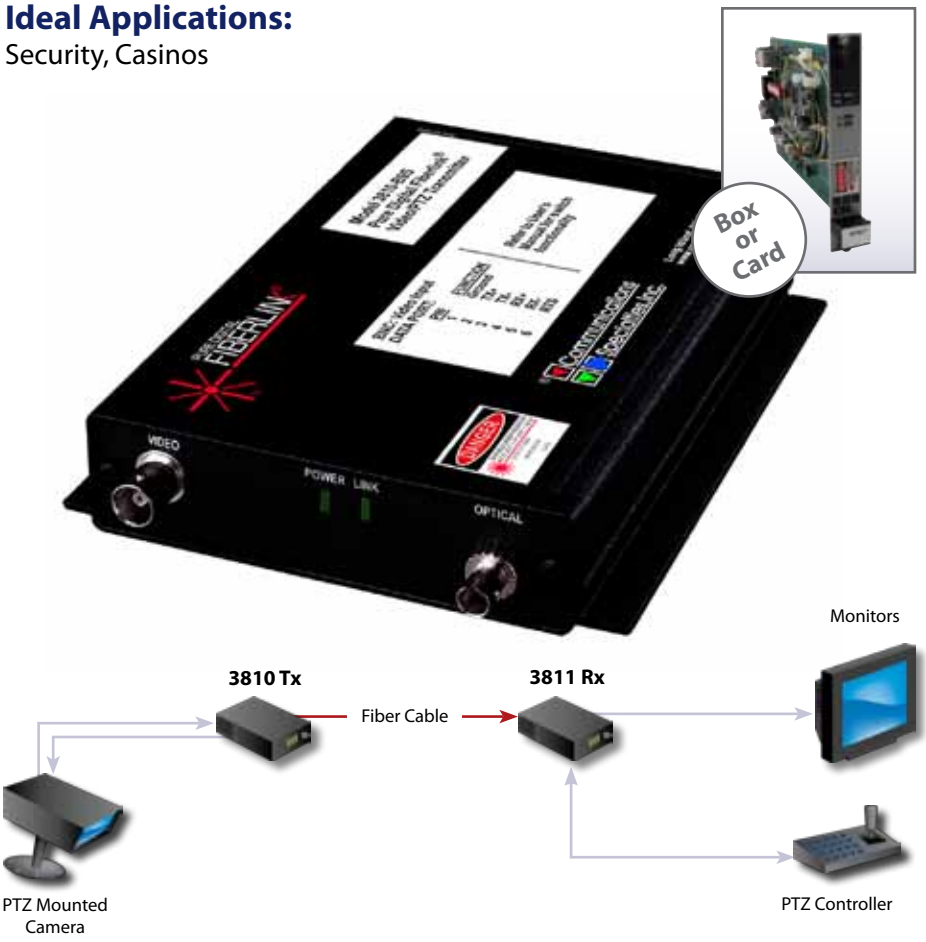
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3800 Composite Video Series

Composite video and bidirectional data transmitted digitally over one or two fibers

Ideal Applications:

Security, Casinos



Signal	Channels	Direction
Video	1	→
Data	1	↔

Features

Transmits over multimode or single mode fiber at 850, 1310 or 1550 nm using one or two fibers

No adjustments; pure digital processing and transmission

8 MHz video bandwidth

Video channel is compatible with NTSC, PAL or SECAM video standards

Bidirectional data channel supports RS-232, RS-422 and RS-485 protocols for use with most PTZ systems. Transmitter and receiver may be configured differently

Built-in diagnostic LEDs for video signal, data signal and power

Wide range power supply allows operation from low voltage AC and DC sources

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately

Card version fills one slot in 6000A card cage

Ordering Information

Part Number	Description	Fiber Cores
3810-Byz	Transmitter, Box Version	1
3810-Cyz	Transmitter, Card Version	1
3811-Byz	Receiver, Box Version	1
3811-Cyz	Receiver, Card Version	1
3820-Byz	Transmitter, Box Version	2
3820-Cyz	Transmitter, Card Version	2
3821-Byz	Receiver, Box Version	2
3821-Cyz	Receiver, Card Version	2
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Part Number Suffix Codes:

y:
- 1 850 nm Multimode
- 3 1310 nm Multimode
- 7 1310 nm Single Mode
- 9 1550 nm Single Mode

z:
- S ST Connector
- F FCPC Connector

Sales

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Video Specifications

Frequency Response	8 MHz (-3 dB)
Input/Output Impedance	75 Ohms
Normal Input/Output Voltage	1V p-p nom., 1.1V p-p max.
Differential Gain	1.5 %
Differential Phase	1.0° typical
Signal-to-Noise Ratio	60 dB CCIR weighted typical
Video Connectors	BNC

Data Specifications

Data Bandwidth	115 Kb/sec, max.
Control Format	RS-232, RS-422, RS-485 (2-wire and 4-wire), switch selectable
Protocols	NRZ, NRZI, RZ, Manchester, Bi-phase
Data Connectors	Terminal Block

General Specifications

Operating Wavelength	850, 1310 and 1550 nm
Number of Fibers	1 or 2
Signal Connectors	Optical: ST and FCPC;
Operating Temperature	-35° to +74° C
Relative Humidity	10% - 90% (non-condensing)
Operating Power*	9-24 volts AC or DC, 5 watts
Physical Size	1.2 H x 5 W x 7 D (inches) 30 H x 127 W x 178 D (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	1
MTBF	100,000 Hours

* For operation from 95-250VAC, 50/60Hz, a PDPS-1 plug-in adapter is required

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3800 Composite Video Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
One Fiber Version		
1310 MM	0-10	0-4
1310 SM	0-19	0-45
1550 SM	11-26	40-65
Two Fiber Version		
850 MM	0-16	0-2
1310 MM	0-15	0-15
1310 SM	0-20	0-50
1550 SM	11-28	35-90

sm = Single Mode Fiber
mm = MultiMode Fiber

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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Made in the USA

Video and Audio

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7820 HD/SD Component, S-Video, Composite Video Series

HD/SD Component video with stereo audio, or S-Video and Composite video with stereo audio, or three channels of Composite Video with stereo audio

Ideal Applications:

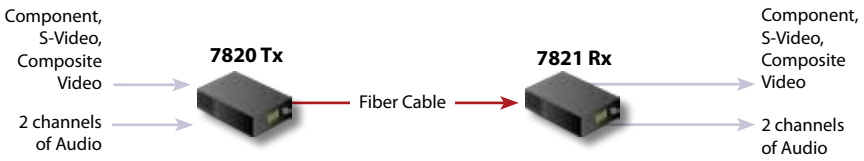
Videoconferencing, Broadcast and Cable TV, Digital Signage

One unit, three modes of operation!

Over one single mode or multimode fiber, you can transmit:

- One Component Video & Stereo Audio
- One S-Video, one Composite Video and Stereo Audio
- Three Composite Video & Stereo Audio

Signal	Channels	Direction
Video	1 to 3	→
Audio	2	→



Features

30 MHz Component Video bandwidth

15 MHz Composite and S-Video bandwidth per channel

Supports 1080i and 720p Component Video

Video channel is compatible with NTSC, PAL or SECAM video standards

Two audio channels that may be user-configured for balanced or unbalanced inputs and outputs

Switch selectable audio output gain boost of +0 dB or +6 dB

Indicator LEDs monitor power, video and audio signals

Transmits over one multimode or single mode fiber

No adjustments; pure digital processing and transmission

Wide range power supply allows operation from both AC and DC sources

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately.

Card version fills two slots in 6000A card cage

Ordering Information

Part Number	Description	Fiber Cores
7820-B7S	Transmitter, Box Version	1
7820-C7S	Transmitter, Card Version	1
7821-B7S	Receiver, Box Version	1
7821-C7S	Receiver, Card Version	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

Sales

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Video Specifications

Frequency Response Composite & S-Video: Component Video:	 15 MHz (-3 dB) Y: 30 MHz (-3dB) PrPb: 15 MHz (-3dB)
Input/Output Impedance	75 Ohms, nominal
Signal-to-Noise Ratio	60 dB (CCIR weighted)
Differential Gain	0.7%
Differential Phase	0.5°
Y/C Delay	< 5 ns
2T K-Factor	0.5%
System Gain	Unity Gain, ± 3%
Video Connectors	BNC; 4-Pin Mini-DIN for S-Video

Audio Specifications

Number of Audio Channels	2, balanced or unbalanced
Bits per sample/ Sampling Rate	24 bits, 64 kHz
Audio Connector	Screw terminal block
Switches	• Select input termination • Balanced or unbalanced input/output, selectable on a per-channel basis • Output gain boost +0 dB or +6 dB
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Maximum Audio Level	+10 dBu
Signal-to-Noise Ratio (A-weighted)	95 dB referenced full scale (balanced)
THD	0.002%, 20Hz - 20 kHz, full scale
Channel Phase Differential	±0.1°
Crosstalk	-100 dB (1kHz)
Audio Noise Level	-85 dBm
System Gain	Unity Gain, ±3%, input: balanced 600 ohms, 50 ohms source impedance ; output: balanced into 600 ohms, gain boost 0 dB.
Receiver Output Gain	+0 dB or +6 dB; switch selectable
Input Impedance	600 Ohms terminated, >24K ohms unterminated
Output Impedance	50 Ohms nominal
Audio to Video Diff. Delay (skew)	<300 usec

General Specifications

Three modes of transmit operation:	One Component Video & Stereo Audio One S-Video, one Composite Video and Stereo Audio Three Composite Video & Stereo Audio
Compatibility	Fiberlink Matrix
LED Indicators	(1) Power, (3) Video, (1) Audio, (1) Alarm LED (card version only)
Power	9-24 volts AC or DC, TX: 4.5 Watts; 15.39 BTU/Hr RX: 4.0 Watts; 13.68 BTU/Hr
Operating Temperature Range	-10° to +60° C
Optical Connectors	ST
Operating Wavelength	1310nm
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	2

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7820 Series
HD/SD Component, S-Video, Composite Video

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
SM	0-17	40
MM (50u)	0-17	1.3
MM (62.5u)	0-17	1.0

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

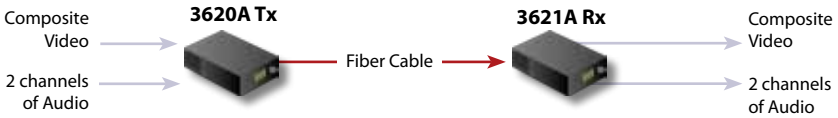
3620A Composite Video Series

Composite video and two audio channels transmitted digitally over one single mode or multimode fiber

Ideal Applications:

Videoconferencing, Broadcast and Cable TV, Digital Signage

Signal	Channels	Direction
Video	1	→
Audio	2	→



Features

10 MHz video bandwidth

Video channel is compatible with NTSC, PAL or SECAM video standards

Two audio channels that may be user-configured for balanced or unbalanced inputs and outputs

Switch selectable audio output gain boost of +0 dB or +6 dB

Indicator LEDs monitor power, video and audio signals

Transmits over one multimode or single mode fiber

No adjustments; pure digital processing and transmission

Wide range power supply allows operation from both AC and DC sources

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately.

Card version fills one slot in 6000A card cage

Ordering Information

Part Number	Description	Fiber Cores
3620A-B7S	Transmitter, Box Version	1
3620A-C7S	Transmitter, Card Version	1
3621A-B7S	Receiver, Box Version	1
3621A-C7S	Receiver, Card Version	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

Sales

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Video Specifications

Frequency Response	10 MHz (-3 dB), ±0.2 dB to 5 MHz
Input/Output Impedance	75 Ohms, nominal
Signal-to-Noise Ratio	60 dB (CCIR weighted)
Differential Gain	0.5%
Differential Phase	0.5°
Y/C Delay	< 10 ns
2T K-Factor	0.5%
System Gain	Unity Gain, ± 3%
Video Connector	BNC

Audio Specifications

Number of Audio Channels	2, balanced or unbalanced
Bits per sample/ Sampling Rate	24 bits, 52 kHz
Audio Connector	Screw terminal block
Switches	• Select input termination • Balanced or unbalanced input/output, selectable on a per-channel basis • Output gain boost +0 dB or +6 dB
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Maximum Audio Level	+10 dBu
Signal-to-Noise Ratio (A-weighted)	95 dB referenced full scale (balanced)
THD	0.002%, 20Hz - 20 kHz, full scale
Channel Phase Differential	±0.1°
Crosstalk	-100 dB (1kHz)
Audio Noise Level	-85 dBm
System Gain	Unity Gain, ±3%, input: balanced 600 ohms, 50 ohms source impedance ; output: balanced into 600 ohms, gain boost 0 dB.
Receiver Output Gain	+0 dB or +6 dB; switch selectable
Input Impedance	600 Ohms terminated, >24K ohms unterminated
Output Impedance	50 Ohms nominal
Audio to Video Diff. Delay (skew)	<300 usec

General Specifications

Compatibility	Fiberlink Matrix & 3620A Series
LED Indicators	Power, Video, Audio, Alarm LED (card version only)
Power	9-24 volts AC or DC TX: 3.5 watts, 11.94 BTU/Hr RX: 3.5 watts, 11.94 BTU/Hr
Operating Temperature Range	-10° to +60° C
Optical Connectors	ST
Operating Wavelength	1310nm
Physical Size	5 W x 1.15 H x 5.25 L (inches) 127 W x 29 H x 133 L (mm)
Weight	approx. 10 oz.; 0.284 kg
Slots Filled in 6000A Card Cage	1

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3620A Composite Video Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
SM	0-17	40
MM (50u)	0-20	7.5
MM (62.5u)	0-20	5

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

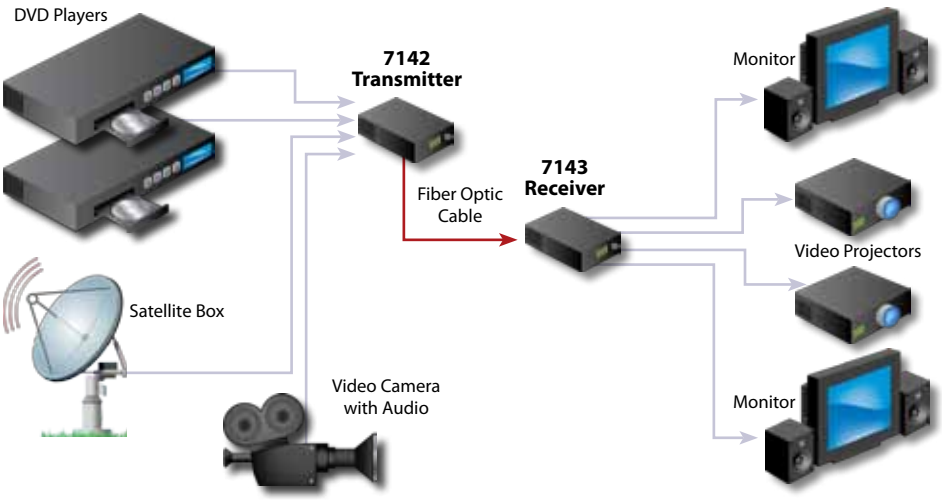
7142 Video & Audio Series

Four uncompressed video channels
and eight independent audio channels
all transmitted digitally over a single fiber

Ideal Applications:

Multi Camera Classrooms, Distance Learning / Videoconferencing
Broadcast

Signal	Channels	Direction
Video	4	→
Audio	8	→



Features

Transmits over multimode or single mode fiber at 1310 nm

No adjustments; pure digital processing and transmission

7 MHz video bandwidth

Video channel is compatible with NTSC, PAL or SECAM video standards

18-bit audio sampling; 20 Hz to 20 kHz audio bandwidth

Audio channels may be configured independently by the user to have either balanced or unbalanced inputs and outputs

Indicator LEDs monitor video signals, audio signals and power

Universal input internal power supply

Compatible with Fiberlink Matrix & Fiberlink 8200 Series

Unit stands 1 RU high.
Rackmount ears are included

Ordering Information

Part Number	Description	Fiber Cores
7142-S7-pp	Transmitter	1
7143-S7-pp	Receiver	1

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

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Video Specifications

Number of channels	4
Video Bandwidth (per channel)	7 MHz (-3 dB)
Input/Output Impedance	75 Ohms
Normal Input/Output Voltage	1V p-p nom., 1.1V p-p max.
Differential Gain	1%
Differential Phase	0.5 degree typical
Signal-to-Noise Ratio	62 dB CCIR weighted typical
Video Connectors	BNC

Audio Specifications

Number of channels	8, balanced or unbalanced
Frequency Response (per channel)	20 Hz to 20 kHz (-3 dB)
Input Impedance	600 Ohms terminated; >24 k Ohms unterminated
Output Impedance	50 Ohms
Normal Input/Output Voltage	0 dBu nom., +10 dBu max.
Signal-to-Noise Ratio	85 dB
THD+N	0.1% typical
Audio Connectors	Screw terminal block
Switches	Dip switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis

General Specifications

LED Indicators	Power; Video Present (per channel); Audio Present (per channel)
Power	95-250 volts AC, 47-63 Hz 7142: 9.5 Watts, 32.41 BTU/hr 7143: 8.5 Watts, 29.00 BTU/hr
Operating Temperature Range	0° to +55° C
Optical Connectors	ST
Operating Wavelength	Yes, Contact Sales
CWDM Capable	1310 nm
Physical Size	1.75 H x 16.75 W x 10 D (inches) 44 H x 425 W x 254 D (mm)
Weight	5lbs; 2.2kg
MTBF	34,000 Hours
Compatibility	Compatible with Fiberlink Matrix & Fiberlink 8200 Series. **Not** compatible with Fiberlink 7140 & 7141 products

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7142 Video & Audio Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)	Distance (km)
Single Mode	0-17	48
Multimode (62.5u)	0-17	1.0
Multimode (50u)	0-17	1.3

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7130 Wideband Video Series

15 MHz wideband video with
four independent audio channels,
digitally transmitted over one fiber

Ideal Applications:

Broadcast Studios, OB Vans, Video Conferencing,
Digital Signage, Distance Learning and Sports Arenas.

Signal	Channels	Direction
Wideband Video	1	→
Audio	4	→

Features

Transmits over one multimode or single mode fiber at 850, 1310 or 1550 nm

Pure digital processing and transmission

10-bit video sampling; 15 MHz video bandwidth; broadcast quality

Video channel is compatible with NTSC, PAL or SECAM video standards

24-bit audio sampling @ 62.5 kHz; 20 Hz to 20 kHz audio bandwidth

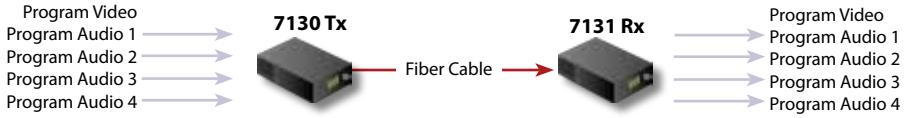
Audio channels may be configured independently by the user to have either balanced or unbalanced inputs and outputs

Indicator LEDs monitor signals and power

Wide range power supply allows operation from low voltage AC and DC sources

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately.

Card version fills one slot in the 6000A card cage



Ordering Information

Part Number	Description	Fiber Cores
7130-Byz	Transmitter, Box Version	1
7130-Cyz	Transmitter, Card Version	1
7131-Byz	Receiver, Box Version	1
7131-Cyz	Receiver, Card Version	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Part Number Suffix Codes:

y:
- 1 850 nm Multimode
- 3 1310 nm Multimode
- 7 1310 nm Single Mode
- 9 1550 nm Single Mode

z:
- S ST Connector
- F FCPC Connector

Sales

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Video Specifications

Number of quantizing bits	10
Frequency Response	15 MHz (-3dB), +0.1 dB to 8 MHz
Input/Output Impedance	75 Ohms
Signal-to-Noise Ratio	67 dB per RS-250C
Differential Gain	0.7%
Differential Phase	0.5 degree
Video Gain Adjust	+/-4%
Y/C Delay	4 ns
2T K-Factor	0.4%
Video Connectors	BNC

Audio Specifications

Number of Audio Channels	4, balanced or unbalanced
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; 62.5 kHz
Maximum Audio Level	+24 dBu
SNR (A-Weighted)	95 dB
THD+N	0.002%, 20 Hz - 20 kHz
Channel Phase Differential	+/-0.1°
Crosstalk	min. 95 dB (1 kHz)
Input Impedance	600 Ohms terminated; >24 k Ohms unterminated
Output Impedance	50 Ohms
Audio Connectors	Screw terminal block
Switches	DIP switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis

General Specifications

LED Indicators	Power; Video/Audio Present; Alarm LED (card version only)
Power Requirements*	9-24 volts AC or DC, 5 watts
Operating Temperature Range	-35° to +70° C
Optical Connectors	ST or FCPC
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	1

* For operation from 95-250VAC, 50/60Hz, a PDPS-1 plug-in adapter is required.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7130 Wideband Video Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-20	0-.75
1310 MM	0-24	0-2
1310 SM	0-23	0-55
1550 SM	0-25	0-80

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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3 YEAR LIMITED WARRANTY

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Made in the USA

Video Only

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

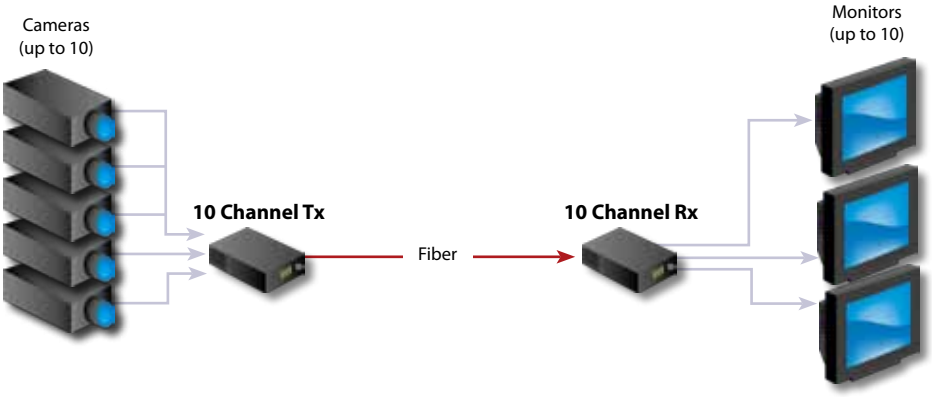
3134 Video Multiplexer Series

10 Channel Composite Video Multiplexer over one single mode or multimode fiber

Ideal Applications:

Security, Remote Monitoring, Command and Control Centers

Signal	Channels	Direction
Video	10	→



Features

- Multiplexes up to 10 composite video signals on one fiber
- Compatible with multimode or single mode fiber
- No adjustments; pure digital processing and transmission
- Full color, uncompressed, real-time transmission in NTSC, PAL or SECAM
- Built-in diagnostic LEDs for each channel and a loss of signal/broken fiber alarm
- Internal, universal power supply with AC line cord
- One rack unit high (1.75 inches). Rackmount ears included with unit
- Fiberlink Matrix Compatible

Ordering Information

Part Number	Description	Fiber Cores
3134-S7-pp	Transmitter	1
3135-S7-pp	Receiver	1

Part Number Suffix Codes:

pp: NA - North America, AU - Australia, EU - Europe, JP - Japan, UK - United Kingdom

Sales

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Video Specifications

Number of Channels	10
Number of Fibers	1
Video Bandwidth (all channels at rated distance)	10 Hz - 6.5 MHz (-3 dB)
Video Input	1 volt p-p
Input/Outut Impedance	75 Ohms
Differential Gain	<1.5% typical
Differential Phase	<1 degree typical
Signal-to-Noise Ratio	>63 dB (CCIR weighting)
Video Connectors	BNC

General Specifications

Operating Wavelength	1310 nm**
Optical Connectors	ST
Operating Temperature	0 to +55 degrees C
Relative Humidity	10% - 90% (non-condensing)
Operating Power	95-250 VAC, 47-63 Hz
Size	1.75 H x 16.75 W x 10 D (inches) 44 H x 425 W x 254 D (mm)
Weight	Approx. 5.5 lbs; 2.5 kg
Fiberlink Matrix Compatibe	Yes

** Other wavelengths and loss budgets available on special order

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3134 Video Multiplexer Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)**	Distance (km)
SM	0-20	55
MM (50u)	0-20	1.3
MM (62.5u)	0-20	1.0

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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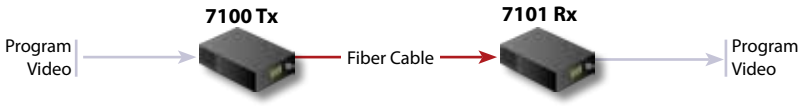
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

7100 Wideband Video Series

15 MHz wideband video digitally transmitted over one fiber using 10-bit quantizing

Ideal Applications:

Broadcast, Cable, Satellite, Industrial Security



Signal	Channels	Direction
Wideband Video	1	→

Features

Transmits over one multimode or single mode fiber at 850, 1310 or 1550 nm

Pure digital processing and transmission

10-bit video sampling; 15 MHz video bandwidth; broadcast quality

Video channel is compatible with NTSC, PAL or SECAM video standards

Meets RS-250C short haul specification

Adjustable output video gain

Indicator LEDs monitor baseband signal and power

Wide range power supply allows operation from low voltage AC and DC sources

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately.

Card version fills one slot in 6000A card cage

Ordering Information

Part Number	Description	Fiber Cores
7100-Byz	Transmitter, Box Version	1
7100-Cyz	Transmitter, Card Version	1
7101-Byz	Receiver, Box Version	1
7101-Cyz	Receiver, Card Version	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Part Number Suffix Codes:

y:	1	850 nm Multimode	***z:***	S	ST Connector
	3	1310 nm Multimode		F	FCPC Connector
	7	1310 nm Single Mode			
	9	1550 nm Single Mode			

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Video Specifications

Number of quantizing bits	10
Frequency Response	15 MHz (-3dB), +/- 0.1 dB to 8 MHz
Input/Output Impedance	75 Ohms
Signal-to-Noise Ratio	67 dB per RS-250C
Differential Gain	0.7%
Differential Phase	0.5 degree
Video Gain Adjust	+/- 4%
Y/C Delay	4 ns
2T K-Factor	0.4%
Video Connector	BNC

General Specifications

LED Indicators	Power; Baseband Video Present; Alarm LED (card version only)
Power Requirements*	9-24 volts AC or DC, 7 watts
Operating Temperature Range	-35° to +70° C
Optical Connectors	ST or FCPC
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	1

* For operation from 95-250VAC, 50/60Hz, a PDPS-1 plug-in adapter is required.

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The **Fiberlink®** line offers an extensive and affordable family of fiber optic transmission systems for the Professional A/V marketplace and includes several ground-breaking products for the transmission of high-resolution RGB signals. Systems for point-to-point and point-to-multipoint signal distribution make these products highly desirable for any Pro A/V architecture. New products are constantly being designed and developed and you can get the latest information at commspecial.com

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

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VIDEO, AUDIO & DATA OVER FIBER

7100 Wideband Video Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-20	0-.75
1310 MM	0-25	0-2
1310 SM	0-23	0-55
1550 SM	0-25	0-80

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Beamer-V

Fiber optic transmission of composite video
in a simple, low-cost system

Ideal Applications:

Security, A/V Confidence Monitoring

Signal	Channels	Direction
3100/3101 Video	1	→
3108A/3109A Video	Dual	→

Features

Transmits up to three kilometers over multimode fiber at 850 nm

8 MHz video bandwidth

May be purchased as a complete, low cost system including transmitter, receiver and two power supplies

Card version supports dual video channels

Card version fills one slot in 6000A card cage

Fiber is immune to the effects of electrical interference, ground loops, explosive and hazardous environments, moisture and high voltage

Ordering Information

Part Number	Description	Fiber Cores
3100	Transmitter Box	1
3101	Receiver Box	1
3105-pp	Beamer-V System: Includes 1 Transmitter Box, 1 Receiver Box and 2 Power Supplies	1
3108A	Dual Channel Transmitter Card	2
3109A	Dual Channel Receiver Card	2
119757	N. American Power Supply: 115 volts AC to 12 volts DC with connector	
102202	European Power Supply: 230 volts AC to 9 volts DC with connector	
119854	United Kingdom Power Supply: 230 volts AC to 9 volts DC with connector	
121016	Japanese Power Supply: 100 volts AC to 9 volts DC with connector	

Power Supply Suffix Codes (pp):

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

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Video Specifications

Number of Channels	1
Number of Outputs per Channel	Box: 1; Card: 2
Bandwidth	8 MHz
Input/Output Impedance	75 Ohms
Signal-to-Noise Ratio (per RS-250)	52 dB minimum
Differential Gain (per RS-250)	2% typical
Differential Phase (per RS-250)	1° typical
Input/Output Voltage	1 volt p-p (user adjustable at receiver)

General Specifications

Number of Fibers	Box: 1; Card: 2 (1 per channel)
Operating Temperature	-35 to +75° C
Relative Humidity	10 to 90%, non-condesnsing
Operating Power (per unit)	9-12 V ±10% DC @ 100 ma max.
Dimensions	3.25 L x 2.38 W x 1 H (inches) 83 L x 60 W x 25.4 (mm)
Weight	3.0 oz. (85.04 grams)
Optical Connectors	ST
Optical Wavelength	850 nm
Optical Fiber	62.5 micron multimode fiber

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Beamer-V

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-12	0-3

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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Data Only

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VIDEO, AUDIO & DATA OVER FIBER

5002: RS-232 Micro Transceiver

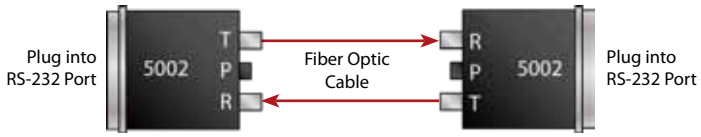
Transmits RS-232 data over multimode fiber for simplex, duplex, asynchronous, point-to-point and drop-and-repeat operation

Ideal Applications:

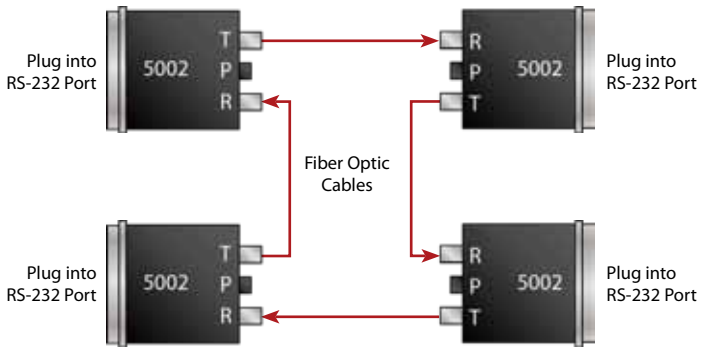
Remote control, Telemetry,
Digital signage

Signal	Channels	Direction
RS-232 Data	1	⟷

Point-to-Point



Drop-and-Repeat



Operating power may be applied through the "P" port or through the DB-25 connector pins

Features

- Miniature transceiver occupies no more space than a DB-25 connector
- Transmits over standard multimode fiber at 850 nm
- Supports distances up to 3.2 km
- Adjustment-free
- May be user-configured to either DCE or DTE mode
- Supports simplex, duplex, asynchronous, point-to-point and drop-and-repeat operating modes
- Operates with all data rates up to 120 Kbps
- Quick and easy to install
- Power supply must be purchased separately

Ordering Information

Part Number	Description	Fiber Cores
5002-1	Microtransceiver	2
119757	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

Sales

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Data Specifications

Operating Mode	Simplex, Duplex, Asynchronous Point-to-Point, Drop-and-Repeat
Data Transmission Rate	DC to 120 Kbps
Input Signal Voltage	±5 to ±10 volts per EIA RS-232D
Output Signal Voltage	±5 to ±10 volts per EIA RS-232D

General Specifications

Number of Fibers	2
Operating and Storage Temperature	-35 to +75° C
Relative Humidity	10 to 90%, non-condesnsing
Operating Power (per unit)	12 V ±10% DC @ 100 ma maximum 4.1 BTU/hr
Dimensions	2.1 x 1.7 x 0.55 (inches) 53 x 43 x 14 (mm)
Weight	Approx. 1 lb.; .45 kg
Connectors	Optical: ST; Signal: DB-25P (male)
Optical Wavelength	850 nm
Optical Fiber	62.5 micron multimode fiber
ESD Protection	±10 kV
MTBF	139,000 Hours

About CSI

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5002: RS-232 Micro Transceiver

GSA Schedule
Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-15	0-3.2

MM = MultiMode Fiber

* Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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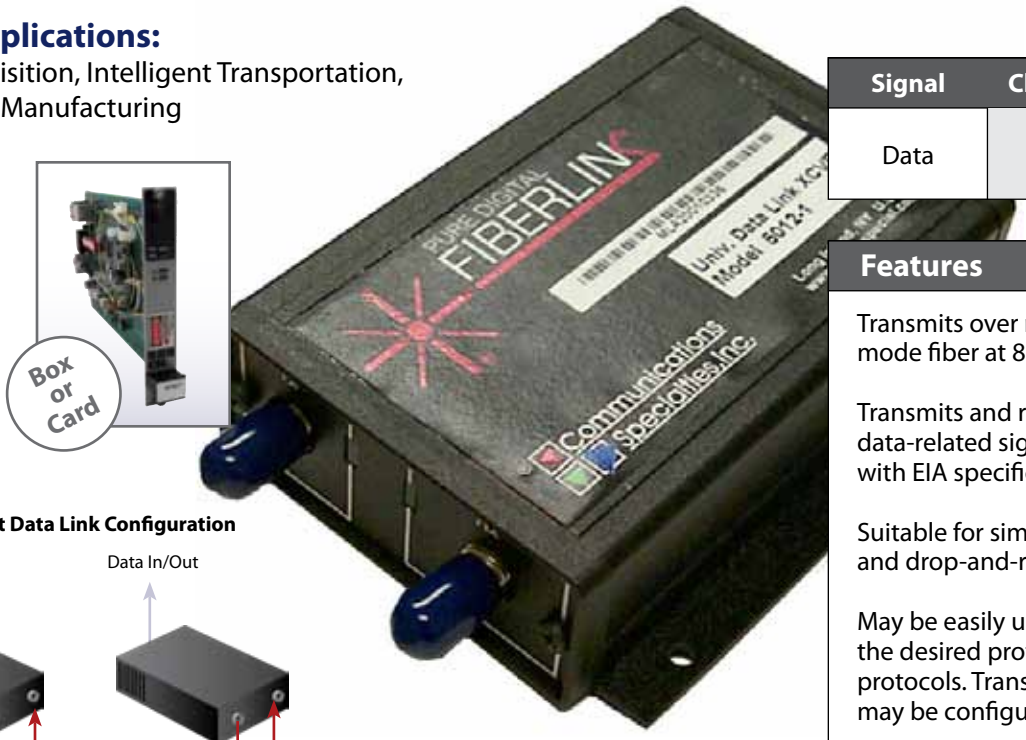
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

5012/5018A Universal Data Transceivers

RS-232/422/485 data transmitted digitally over single mode or multimode fiber

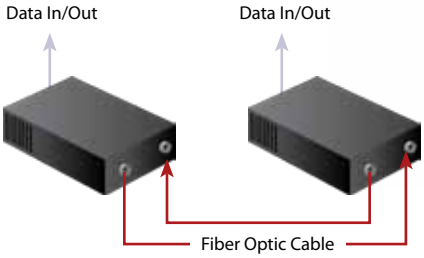
Ideal Applications:

Data Acquisition, Intelligent Transportation, Industrial, Manufacturing

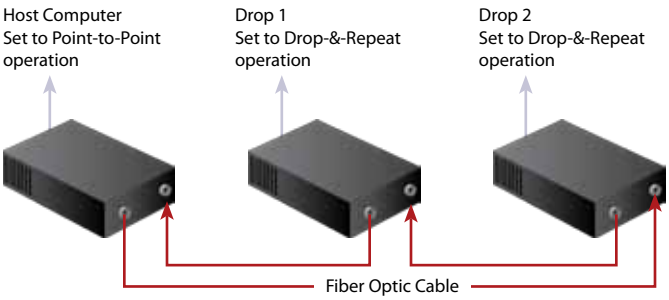


Signal	Channels	Direction
Data	1	⟷

Point-to-Point Data Link Configuration



Ring or Loop Type Data Bus Configuration



Features

Transmits over multimode or single mode fiber at 850 or 1310 nm

Transmits and receives all standard data-related signals in accordance with EIA specifications

Suitable for simplex, full duplex and drop-and-repeat operation

May be easily user-configured for the desired protocol, including mixed protocols. Transmitter and receiver may be configured differently

Adjustment free; all digital processing and transmission

Wide operating data rate, with low-speed mode (DC up to 1.0 Mbps; 200 Kbps for RS-232) and high-speed mode (10 Kbps - 10 mbps)

Extended ambient operating range

Data-derived or RTS transmit/receive switching (RS-485)

Indicator LEDS monitor signal and power

Card version fills one slot in 6000A card cage

RoHS Compliant

Ordering Information

Part Number	Description	Fiber Cores
5012-1	Transceiver Box, 850 nm, MM fiber	2
5018A-1	Transceiver Card, 850 nm, MM fiber	2
5012-3	Transceiver Box, 1310 nm, MM fiber	2
5018A-3	Transceiver Card, 1310 nm, MM fiber	2
5012-7	Transceiver Box, 1310 nm, SM fiber	2
5018A-7	Transceiver Card, 1310 nm, SM fiber	2
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

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Data Specifications

Low-Speed Transmission Rate	RS-232, DC-200 Kbps; RS-422/485, DC to 1.0 Mbps
High-Speed Transmission Rate	RS-422/485, 10 Kbps to 10 Mbps
Operating Modes	Simplex, duplex, asynchronous, drop-and-repeat, RTS or data derived T/R control (RS-485)
Compatibility	RS-232, RS-422, RS-485 (2 or 4-wire)
Input Signal Voltage	±5 to ±30 volts per EIA RS-232D 4.5 to 5 volts per RS-422, RS-485
Output Signal Voltage	±5 to ±10 volts per EIA RS-232D 4.5 to 5 volts per RS-422, RS-485

General Specifications

Number of Fibers	2
Operating Wavelength	850 or 1310 nm
Connectors	Optical: ST: multimode; FC: singlemode Data: Removable screw-clamp type terminal block
Operating Power (per unit)	10 to 18 volts DC @ 150 ma peak (connected via separate power connector)
Operating Temperature Range	-35 to +74° C
Indicator LEDs	Power, Transmit, Receive, Loss of Data Alarm on card version
Physical Size	3.5 W x 1.25 H x 4.75 L (inches) 89 W x 32 H x 121 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots filled in 6000A Card Cage	1
MTBF:	84,000 Hours

Note: The Universal Data Transceiver is ESD protected to +/-kV on all signal inputs and outputs

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Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

5012/5018 Universal Data Transceivers

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
Low Speed Operation		
850 MM	0-12 dB	0-4
1310 MM	0-14 dB	0-14
1310 SM	0-15 dB	0-35
High Speed Operation		
850 MM	0-6 dB	0-2
1310 MM	0-8 dB	0-8
1310 SM	0-8 dB	0-20

SM = Single Mode Fiber
MM = MultiMode Fiber

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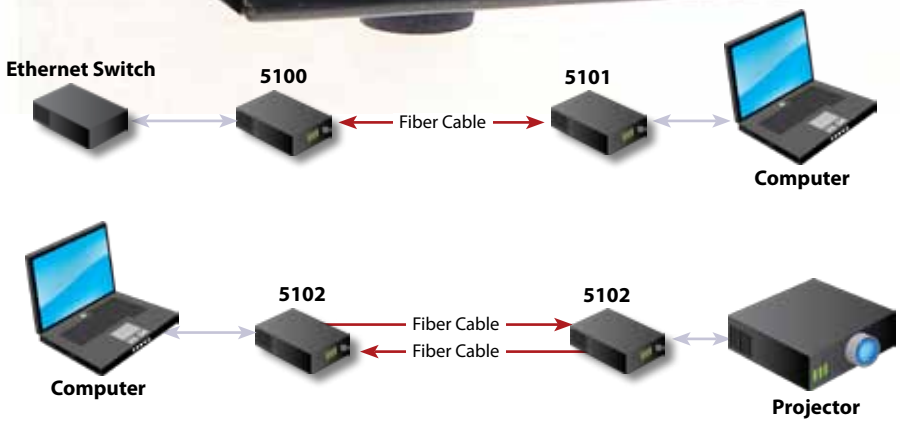
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Gigabit Ethernet Transceiver

Transport 10/100/1000-BASE ethernet over
1 or 2 single mode or multimode fibers

Ideal Applications:

IT, Broadcast, Pro A/V and any application that requires reliable transmission of 10/100/1000 Ethernet data



Ordering Information

Part Number	Description	Fiber Cores	1000-Base-X
5100-B7L	Single Mode or Multimode (1310/1490 nm)	1	BX10-U
5101-B7L	Single Mode or Multimode (1490/1310 nm)	1	BX10-D
5102-B7L	Single Mode or Multimode (1310 nm)	2	LX/LH
5102-B1L	Multimode (850 nm)	2	SX
PDPS-3-pp	Power Supply for 5100 Series		

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

Features

- Auto-sensing 10/100/1000 Mbps Ethernet port with Auto MDIX
- IEEE 802.3, IEEE 802.3u, IEEE 802.3az, & IEEE 802.3z
- Full-duplex and half-duplex
- LEDs indicate Link Activity, SPD, Fault Detection/Collisions and Power
- Single mode & multimode versions available
- One or Two fiber versions available
- Compact design, wall mountable

Sales

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Gigabit Ethernet Transceiver

Transport 10/100/1000-BASE ethernet over
one or two single mode or multimode fibers

Transmission Distance & Loss Budgets

Part Number	1000 Base-	Fiber Cores & Type	802 Distance Spec	CSI Loss Budget	CSI Typical Distance*
5100-B7L	BX10-U	1 SM or MM	SM 10km	15dB min (pair)	1k MM, 10km SM
5101-B7L	BX10-D	1 SM or MM	SM 10km	15dB min (pair)	1k MM, 10km SM
5102-B7L	LX, LH, LH10	2 SM or MM	MM 50u 550m, SM 10km	12dB min	1k MM, 10km SM
5102-B1L	SX	2 MM	MM 50u 550m, 62.5u 220m	9dB min	1k

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

General Specifications

Maximum Speed (1000Base-Tx/Fx)	Full Duplex: 2000Mbps Half Duplex: 1000Mbps
Packet Forwarding Rate	14880pps@10Mbps 148800pps@100Mbps 1488000pps@1000Mbps
Cabling/Maximum Distance	See chart above (longer distances on request)
Connectors	Copper: RJ-45(Auto-MDI / MDI-X) Fiber Optic: LC type
LEDs	TX: LINK/ACT, SPD, FD / COL FX: LINK/ACT, SPD, FD / COL Power
Launch Power/Receiver Sensitivity	1 Fiber SM: -8 dBm min / -23 dBm max 2 Fiber SM: -9 dBm min / -21 dBm max 2 Fiber MM: -9 dBm min / -18 dBm max
Power	Input 12V @ 300ma, 3.6 watts 12.28 BTU/Hr
Operating Temperature Range	0 to +50° Celcius
Operating and Storage Humidity	10% to 90% relative humidity (non-condensing)
Weight	2 pounds
Dimensions	4.25" x 3.14 " x 1.02" (108mm x 80mm x 26mm)

CE FC

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guarantee and a three-year limited
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Sales

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UPDATED 1/29/2010

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Optical Matrix Switchers

FIBERLINK®
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Fiberlink Matrix

Fully configurable optical matrix switch offering up to 32 inputs and 32 outputs selectable on a one by one basis.

Fiberlink Matrix populated with LC connectors

Fiberlink Matrix populated with ST connectors

Ordering Information

Part Number	Description	Fiber Cores
OM32c-aa-bb-z-pp	Fiberlink Matrix (32x32 max)	up to 32
OM16c-aa-bb-z-pp	Fiberlink Matrix (16x16 max)	up to 16

Front Panel Option (c)

P - Full Button Control N - No front panel button control

Input Quantity (aa)

OM32: 01 through 32
OM16: 01 through 16

Output Quantity (bb)

OM32: 01 through 32
OM16: 01 through 16

Optical Connector Type (z)

S - ST Connector Type L - LC Connector Type

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America AU - Australia EU - Europe
JP - Japan UK - United Kingdom

Features

Input and output quantities do not have to match. For example, if a project requires a 15x26 matrix, you can order a 15x26 Fiberlink Matrix.

Available with up to 32 optical inputs and 32 optical outputs

Support single mode or multimode fiber optic types with no changes required by the operator.

Mix and match single mode and multimode fiber types in one system.

Front panel preset store, recall, review and edit functionality

Supports pathological patterns

Reclocking of SMPTE SDI and CSI data rates.

Available with LC or ST connectors

Remote controllable via RS-232 and built in Ethernet based GUI

Compatible with third-party controllers

USB port allows for fast configuration of multiple matrices, facilitates firmware and GUI upgrades and configuration back-up

Dual color illuminated front panel keys make operation a snap

Optionally choose to eliminate the front panel key control and operate Fiberlink Matrix through its remote control ports only

Redundant power supplies

Small form factor: only 3RU high

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Optical Inputs

Number to order	Independent of number of outputs OM32 - 1 to 32 inputs OM16 - 1 to 16 inputs
Data Rate	50 Mbps - 3.2 Gbps
Connector	LC or ST (must match output type)
Wavelength	1100 - 1620 nm
Fiber Types Supported	Multimode & Single Mode
Minimum Input Sensitivity	270 Mbps – -21 dB 1.485 Gbps – -20 dB 2.97 Gbps – -17 dB
Maximum Input Sensitivity	0 dBm
Pathological Signal Support	Yes, per SMPTE EG-34
SMPTE 297-2006 Compliant	Yes

Optical Outputs

Number to order	Independent of number of inputs OM32 - 1 to 32 inputs OM16 - 1 to 16 inputs
Data Rate	50 Mbps - 3.2 Gbps
Connector	LC or ST (must match input type)
Wavelength	1310 nm, nominal, FP laser Other wavelengths and output power available via special order
Fiber Types Supported	Multimode & Single Mode
Output Power	-3.5 dBm, +/- 0.5 dB
Pathological Signal Support	Yes, per SMPTE EG-34
SMPTE 297-2006 Compliant	Yes
Re-clocked Data Rates	All SMPTE 3G/HD/SD-SDI data rates to 2.97 Gbps All CSI Fiberlink data rates for compatible products listed within

Operating Features

Preset Store, Recall Review & Edit	Up to 32 (OM16) or 64 (OM32) presets may be stored and recalled from the front panel, RS-232 or GUI. A preset consists of one or more I/O paths and can be edited with or without executing an I/O switch
USB Port	A front panel USB port is used for the external storage of presets and matrix configuration. It's also used for upgrade of the product firmware.
Status Monitoring	Front panel and GUI monitor of I/O and laser status Recall of current and preset paths Internal Temperature through GUI
Control	RS-232, 10/100 Base-T Ethernet with internal GUI. Optional front panel. Compatible with third-party controllers

CSI Product Compatibility

The following CSI products are compatible with Fiberlink Matrix when operating at the 1100 - 1620 nanometer range:

Scan Do® HD - 1297	Scan Do® HD - 1298
3150 Series	335x Series
3360 Series	3380 Series
3400 Series	3440 Series
3620 Series	4040 Series
4160 Series	4320 Series
5100 Series (2 Fiber)	7030 Series
7040 Series	7050 Series
7060 Series	7070 Series
7100 Series	7130 Series
7140 Series	722x Series
7242 Series	7250 Series
7820 Series	8000 Series
8100 Series	8200 Series
Flex Series (1 Way & 2 Fiber for bi-directionality)	

General Specifications

Input Voltage Range	95 - 250 volts AC, 47 -63 Hz
OM32 Power	57 Watts, 179 BTU/Hr
OM16 Power	39 Watts, 123 BTU/Hr
Dimensions: (inches) (mm)	Without rackmount ears: 16.75 W x 5.25 H x 14 D 425 W x 134 H x 356 D Occupies 3 RU
Operating Temperature	-10 C to +45 C
MTBF	OM32 – 32,000 hours OM16 – 38,000 hours
Weight (maximum)	12 lbs, 5.46 kg
Upgradeable:	Firmware upgradeable by user. I/O ports are factory upgradable only.

Sales

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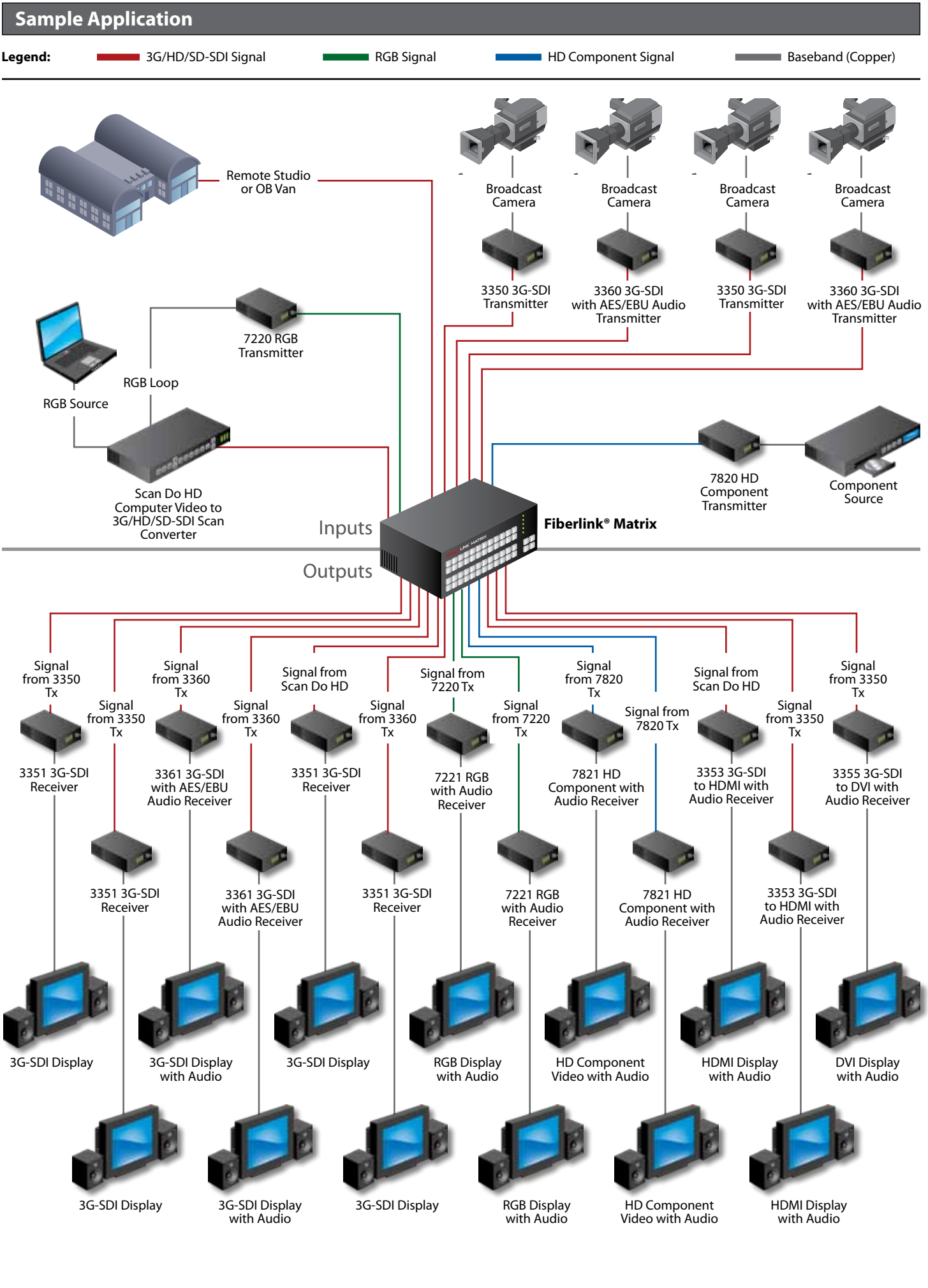
Sample Application



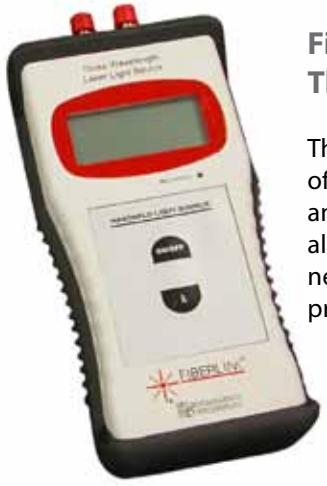
Optional Accessories

Fiberlink® 6610 Visible Light Source

The Fiberlink® Visible Light Source provides a visible 650 nm laser output that can be used for identifying fiber breaks and individual fibers within fiber bundles, allowing for convenient, on-site testing of fiber networks during construction and maintenance procedures.

Fiberlink® 6615 Optical Power Meter

The Fiberlink® Optical Power Meter measures the power of optical signals at 850, 980, 1310 and 1550 nm wavelengths, allowing for convenient, on-site testing of fiber networks during construction and maintenance procedures. It can be used to measure the power of an optical signal reaching the receiving end of a fiber optic cable, as generated either by a transmitter unit or by a light source such as the 6620.



Fiberlink® 6620 Three Wavelength Light Source

The Fiberlink® Three Wavelength Light Source offers a laser output at wavelengths of 1310 and 1550 nm and VCSEL output at 850 nm, allowing for convenient, on-site testing of fiber networks during construction and maintenance procedures.

FIBERLINK®
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32x32 Optical Matrix Switch

GSA Schedule
Contract GS-03F-5063C

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ODAs, Splitters, CWDMs and WDMs

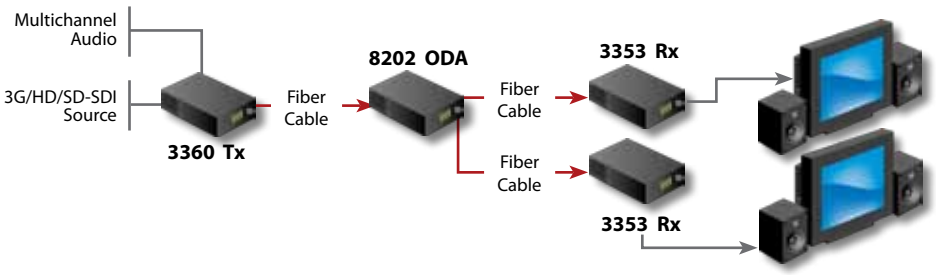
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

3G/HD/SD-SDI Optical Distribution Amplifier

One to four output optical distribution amplifier with switch selectable copper or optical signal input source.

Ideal Applications:

Broadcast or corporate studios, OB trucks, distance learning, remote studio monitoring, rental and staging, auditoriums, stadiums and theaters, airport or transportation hubs, surgical or medical imaging and more!



Features

- Switch selectable copper or optical 3G/HD/SD-SDI input
- Supports 3G/HD/SD-SDI and DVB-ASI signals
- Available with one to four outputs
- Copper and optical ports are SMPTE compliant
- All 3G/HD/SD-SDI and DVB-ASI signals are equalized and re-clocked
- Active re-clocked BNC loop of selected input (BNC or Optical)
- Support pathological patterns across the entire operating temperature range
- Available with LC or ST connectors
- Supports single mode and multimode fibers in one unit
- Optional CWDM compatible optical outputs available
- Can be used as an inline repeater for optical extension
- Can be used to interface between multimode and single mode fibers with active repeating
- Fiberlink Matrix compatible
- Small, compact design as standalone box
- Card version available for 6000A card cage
- Low power consumption - 3.6 watts

Ordering Information

Part Number	Description	Fiber Outputs
8201-xzm	One Output Optical Distribution Amp	1
8202-xzm	Two Output Optical Distribution Amp	2
8203-xzmmm	Three Output Optical Distribution Amp	3
8204-xzmmmm	Four Output Optical Distribution Amp	4
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Part Number Suffix Codes:

x:
- B Box Version
- C Card Version

z:
- S ST Connector
- L LC Connector

m:

7	Standard 1310nm FP laser	I	1470
A	1310nm DFB laser	J	1490
B	1330	K	1510
C	1350	L	1530
D	1370	M	1550
E	1390	N	1570
F	1410	O	1590
G	1430	P	1610
H	1450		

Sales

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General Specifications

Indicators	Power, Data Rate Lock (3G, HD, SD/DVB-ASI) Alarm (Card Version Only)
Switch	Selects BNC or Optical input
Box Version Dimensions	6.5 W x 1.15 H x 6 L (inches) 165 W x 29 H x 152 L (mm)
Weight	14 ounces, 398 grams
Slots in 6000A Card Cage	2
Power	9-24 volts, DV or AC, 3.6 watts 12.28 BTU/Hr
Operating Temperature	-10º C to +50º C
Compatibility:	Fiberlink Matrix, 7820, 3350, 3360, 3380, 2302/4, 3353, 3355 and other SMPTE compliant devices

Serial Video BNC Input

Number of Inputs	1
Date Rate Range	19.4 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 297-2006, 424M-2006, 305M, 310M, 344M, DVB-ASI
Re-clocked Data Rates	270 Mbps (SMPTE 259M, DVB-ASI-270), 1.485 Gbps (SMPTE 292) 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	> 10dB up to 2.97 Gbps

Fiber Optic Input

Connector	LC or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps -20 dBm at 1.485 Gbps -21 dBm at 270 Mbps
Maximum Input Power	0 dBm

Serial Video BNC Loop-Through Output

Number of Loop-Throughs	1
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006 < 270 ps at 1.485 Gbps per SMPTE 292 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps and 2.97 Gbps

Optical Output

Connector	LC or ST
Wavelength	1310nm (nominal)
Emitter Type	FP Laser
Output Power (nominal)	-3.5 dBm at 270 Mbps, 1.485 Gbps & 2.97 Gbps
Re-clocking	At 270 Mbps, 1.485 Gbps and 2.97 Gbps

FIBERLINK
VIDEO, AUDIO & DATA OVER FIBER

3G/HD/SD-SDI Optical Distribution Amplifier

GSA Schedule Contract GS-03F-5063C

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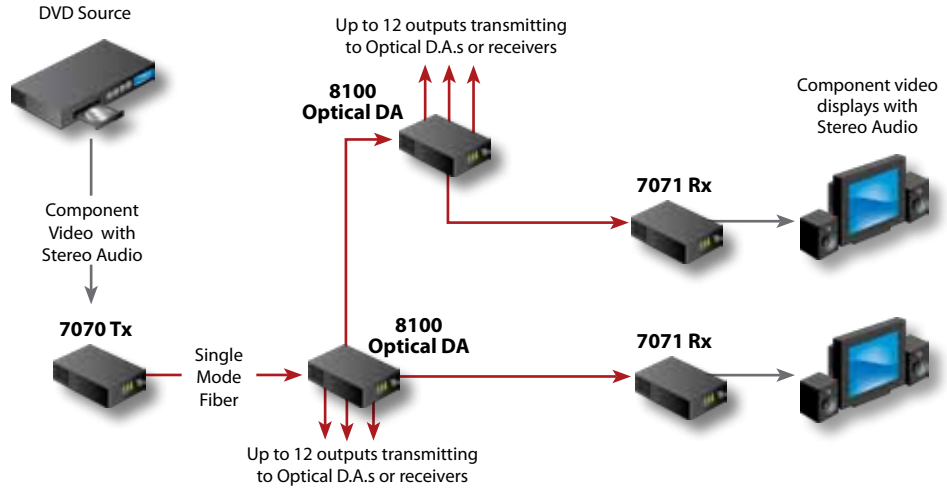
8100 Optical Distribution Series

Twelve output optical D.A. works with one-way Fiberlink systems, providing infinite signal extension and distribution options

Ideal Applications:

Digital signage, broadcast or corporate studios, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Signal	Channels	Direction
All types	2 to 12 DA	→


DVD Source
Component Video with Stereo Audio
7070 Tx
Single Mode Fiber
8100 Optical DA
Up to 12 outputs transmitting to Optical D.A.s or receivers
8100 Optical DA
7071 Rx
Component video displays with Stereo Audio
7071 Rx
Up to 12 outputs transmitting to Optical D.A.s or receivers

Features

Receives an optical signal from a Fiberlink transmitter; then digitally regenerates and relaunches it over two to 12 outputs

Works with one-way Fiberlink systems*; can support multiple channels on each output

Units may be daisy-chained to create elaborate distribution networks

Absolutely no degradation to original baseband signals

Inputs and outputs configured separately; configured in sets of two

Works with multimode or single mode fiber at 850, 1310 or 1550 nm

Stand-alone box with internal power supply

Rackmount ears provided for mounting in standard 19" rack. 1RU high

*See chart on reverse side for wavelength compatibility.

Ordering Information

Part Number	Description
8102pp-yzw	Configured for 2 output
8104pp-yzww	Configured for 4 outputs
8106pp-yzwww	Configured for 6 outputs
8108pp-yzwwww	Configured for 8 outputs
8110pp-yzwwwww	Configured for 10 outputs
8112pp-yzwwwwww	Configured for 12 outputs

Note: High Speed option required for 7220, 7242, 7250 and 3134 series only.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Part Number Suffix Codes:

w: *Output Optical Wavelength/Mode/Connector*
- J 850 nm, MM, ST
- K 850 nm, MM, FC
- L 1310 nm, MM, or SM, ST
- M 1310 nm, MM, or SM, FC
- N 1310 nm, MM or SM, ST High Speed
- P 1310 nm, MM or SM, FC High Speed
- Q 1550 nm, MM or SM, ST
- R 1550 nm, MM or SM, FC

y: *Input Optical Wavelength/Mode*
- 8 850 nm, MM
- 3 1310/1550, MM or SM

z: *Input Connector*
- S ST connector
- F FCPC connector

For operating Loss Budgets and Maximum Usable Distance, please see the 8000 & 8100 Loss Budgets Data Sheet

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8100 Optical Distribution Series

Compatability Chart

The following chart indicates which Fiberlink® systems can interface with the 8100 Series units. Note that when multiple ODA's are cascaded together, signal compatibility is a function of the Transmitter and Receiver units being used on each end of the system.

Can Receive: ●
Can't Receive: ○

8100 O.D.A.s can RECEIVE the following inputs from Fiberlink Transmitter units:

Tx Output to D.A.	850nm MM	1310 nm MM	1310 nm SM	1550nm MM/SM
3134*	○	○	●	○
3400	●	●	●	●
3440	●	○	○	○
4040	●	●	●	●
4160	●	●	●	●
4320	●	●	●	●
7030	●	●	●	●
7040	●	●	●	●
7050	●	●	●	●
7060	●	●	●	●
7070	●	●	●	●
7100	●	●	●	●
7130	●	●	●	●
7140	●	●	●	●
7220/2/4/6*	○	●	●	●
7242*	○	●	●	●
7250*[1]	○	●	●	○
8000	●	●	●	●
8100	●	●	●	●
Flex	●	●	●	●

8100 O.D.A.s can TRANSMIT the following outputs to Fiberlink Receiver units:

D.A. Output to Rx	850nm MM	1310 nm MM	1310 nm SM	1550nm MM/SM
3135	○	○	●	○
3401	●	●	●	●
3441	●	○	○	○
4041	●	●	●	○
4161	●	●	●	○
4321	●	●	●	○
7031	●	●	●	●
7041	●	●	●	●
7051	●	●	●	●
7061	●	●	●	●
7071	●	●	●	●
7101	●	●	●	●
7131	●	●	●	●
7141	●	●	●	●
7221/3/5/7	○	●	●	●
7243	○	●	●	●
7251[1]	○	●	●	○
8000	●	●	●	●
8100	●	●	●	●
Flex	●	●	●	○

* High Speed option required for 7220, 7242, 7250 and 3134 series only.
[1] The 7250 Series is a two fiber system. You will need two 8000 ODA's.

General Specifications

The 8100 Series Optical D.A. does not have any video, audio or data specifications of its own. These baseband specifications are a function of the Fiberlink system that is being used in conjunction with the 8100 Series. Refer to the respective product data sheets for complete information.

It should be noted that when using an 8100 Series O.D.A., operating loss budget and maximum usable distance will vary from that specified on the individual product data sheets. A supplement to this data sheet, featuring a complete listing of loss budgets, is available online. Or, you may contact CSI's sales department for assistance.

Operating Wavelength	850, 1310 and/or 1550 nm
Number of Fibers	1 in; 2 to 12 out
Signal Connectors	ST and/or FCPC
LED Indicators	Power, Input Signal Present, Unit Locked to Input
Operating Temperature	-10° C to +40° C
Relative Humidity	10% - 90% (non-condensing)
Operating Power	95 - 250 volts AC, 47-63 Hz
Physical Size	16.75 W x 1.75 H x 14 D (inches) 425 W x 44 H x 356 D (mm)
Weight	approx. 7 lbs.; 3.15 kg

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GSA Schedule Contract GS-03F-5063C

FIBERLINK®
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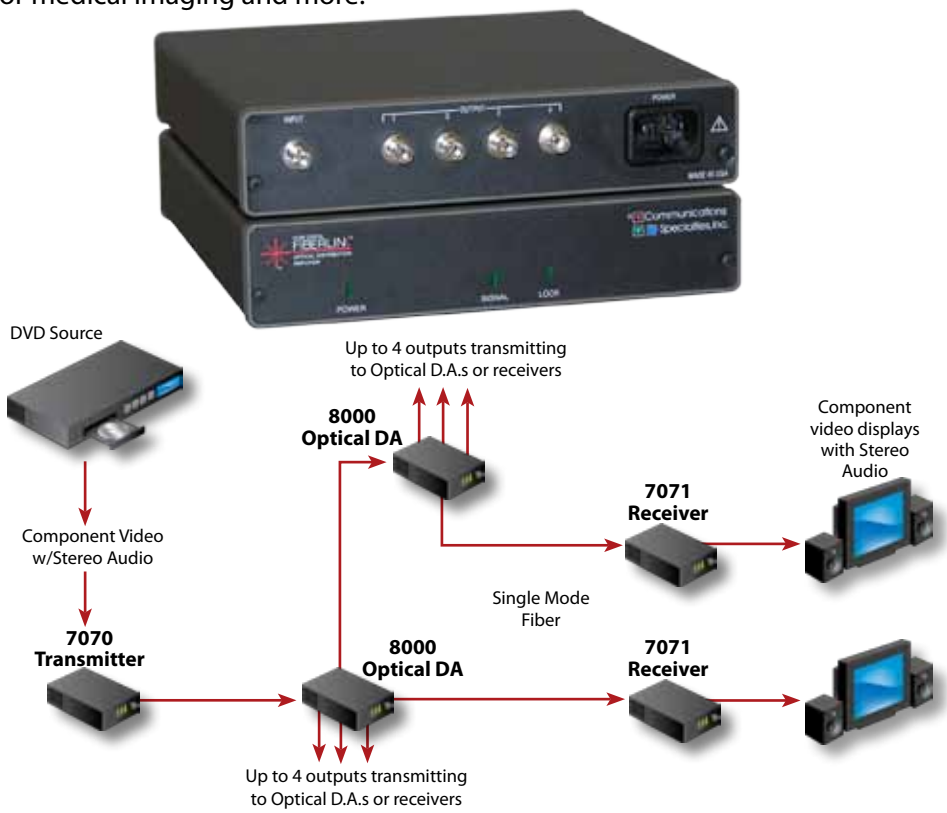
8000 Optical Distribution Series

Four output optical D.A. works with one-way Fiberlink systems, providing infinite signal extension and distribution options

Ideal Applications:

Digital signage, broadcast or corporate studios, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!


DVD Source
Up to 4 outputs transmitting to Optical D.A.s or receivers
8000 Optical DA
Component video displays with Stereo Audio
7071 Receiver
Component Video w/Stereo Audio
Single Mode Fiber
7070 Transmitter
8000 Optical DA
7071 Receiver
Up to 4 outputs transmitting to Optical D.A.s or receivers

Signal	Channels	Direction
All types	1 to 4 DA	→

Features

Receives an optical signal from a Fiberlink transmitter; then digitally regenerates and relaunches it over one to four outputs

Works with one-way Fiberlink systems*; can support multiple channels on each output

Units may be daisy-chained to create elaborate distribution networks

Absolutely no degradation to original baseband signals

Inputs and outputs configured separately; configured in sets of two

Works with multimode or single mode fiber at 850, 1310 or 1550 nm

Stand-alone box with internal power supply

One and two unit rackmount kits available for mounting in 19" rack

*See chart on reverse side for wavelength compatibility.

Ordering Information

Part Number	Description
8001pp-yzw	Configured for 1 output
8002pp-yzww	Configured for 2 outputs
8003pp-yzwww	Configured for 3 outputs
8004pp-yzwwww	Configured for 4 outputs
1240	Rackmount for one 8000 unit
1241	Rackmount for two 8000 units

Note: High Speed option required for 7220, 7242, 7250 and 3134 series only.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Part Number Suffix Codes:

w: *Output Optical Wavelength/Mode/Connector*

A	850 nm, MM, ST
B	850 nm, MM, FC
C	1310 nm, MM, or SM, ST
D	1310 nm, MM, or SM, FC
E	1310 nm, MM or SM, ST High Speed
F	1310 nm, MM or SM, FC High Speed
G	1550 nm, MM or SM, ST
H	1550 nm, MM or SM, FC

y: *Input Optical Wavelength/Mode*

8	850 nm, MM
3	1310/1550, MM or SM

z: *Input Connector*

S	ST connector
F	FCPC connector

For operating Loss Budgets and Maximum Usable Distance, please see the 8000 & 8100 Loss Budgets Data Sheet

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8000 Optical Distribution Series

Compatability Chart

The following chart indicates which Fiberlink® systems can interface with the 8000 Series units. Note that when multiple ODA's are cascaded together, signal compatibility is a function of the Transmitter and Receiver units being used on each end of the system.

Can Receive: ●
Can't Receive: ○

8000 O.D.A.s can RECEIVE the following inputs from Fiberlink Transmitter units:

Tx Output to D.A.	850nm MM	1310 nm MM	1310 nm SM	1550nm MM/SM
3134*	○	○	●	○
3400	●	●	●	●
3440	●	○	○	○
4040	●	●	●	●
4160	●	●	●	●
4320	●	●	●	●
7030	●	●	●	●
7040	●	●	●	●
7050	●	●	●	●
7060	●	●	●	●
7070	●	●	●	●
7100	●	●	●	●
7130	●	●	●	●
7140	●	●	●	●
7220/2/4/6*	○	●	●	●
7242*	○	●	●	●
7250*[1]	○	●	●	○
8000	●	●	●	●
8100	●	●	●	●
Flex	●	●	●	●

8000 O.D.A.s can TRANSMIT the following outputs to Fiberlink Receiver units:

D.A. Output to Rx	850nm MM	1310 nm MM	1310 nm SM	1550nm MM/SM
3135	○	○	●	○
3401	●	●	●	●
3441	●	○	○	○
4041	●	●	●	○
4161	●	●	●	○
4321	●	●	●	○
7031	●	●	●	●
7041	●	●	●	●
7051	●	●	●	●
7061	●	●	●	●
7071	●	●	●	●
7101	●	●	●	●
7131	●	●	●	●
7141	●	●	●	●
7221/3/5/7	○	●	●	●
7243	○	●	●	●
7251[1]	○	●	●	○
8000	●	●	●	●
8100	●	●	●	●
Flex	●	●	●	○

* High Speed option required for 7220, 7242, 7250 and 3134 series only.
[1] The 7250 Series is a two fiber system. You will need two 8000 ODA's.

General Specifications

The 8000 Series Optical D.A. does not have any video, audio or data specifications of its own. These baseband specifications are a function of the Fiberlink system that is being used in conjunction with the 8000 Series. Refer to the respective product data sheets for complete information.

It should be noted that when using an 8000 Series O.D.A., operating loss budget and maximum usable distance will vary from that specified on the individual product data sheets. A supplement to this data sheet, featuring a complete listing of loss budgets, is available online. Or, you may contact CSI's sales department for assistance.

Operating Wavelength	850, 1310 and/or 1550 nm
Number of Fibers	1 in; 1 to 4 out
Signal Connectors	ST and/or FCPC
LED Indicators	Power, Input Signal Present, Unit Locked to Input
Operating Temperature	-10° C to +40° C
Relative Humidity	10% - 90% (non-condensing)
Operating Power	95 - 250 volts AC, 47-63 Hz
Physical Size	7.25 W x 1.5 H x 8 D (inches) 184 W x 38 H x 203 D (mm)
Weight	approx. 2 lbs.; 0.91 kg
Slots Filled in 6000A Card Cage	Card version is not offered at this time. SIngle and double unit rackmount kits may be purchased for mounting the box unit within a standard 19" rack.

Want to learn more about fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!

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GSA Schedule Contract GS-03F-5063C

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8000 & 8100 Optical Distribution Series

Loss budgets and transmission distances

This four-page guide is intended to be used as a supplement to the data sheets for the 8000 and 8100 Series of products.

Signal	Channels	Direction
8000 Series All types	1 to 4 DA	→
8100 Series All types	2 to 12 DA	→

8000 Series

8100 Series

Contents

The following charts show loss budgets and maximum transmission distances for all units compatible with the 8000 and 8100 Series O.D.A.s. Products not included on the input and/or output charts do not function with these units. Note that some systems operating at the highest wavelength are compatible with the O.D.A.s' input but not with their output.

Be sure to refer to the charts on the last page of this document for loss budgets resulting from the cascading of two or more O.D.A.s together, as these numbers are different than when only a single O.D.A. is in use.

Single O.D.A.; Loss Budgets Between Transmitter and O.D.A. Page 2

Single O.D.A.; Loss Budgets Between O.D.A. and Receiver Page 3

Cascading O.D.A.s; Loss Budget Between O.D.A. Units Page 4

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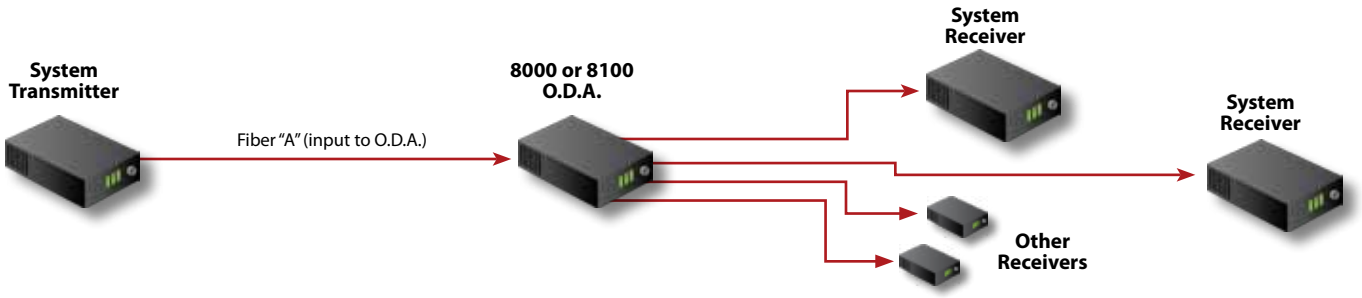
8000 & 8100 Optical Distribution Series

Loss budgets and transmission distances



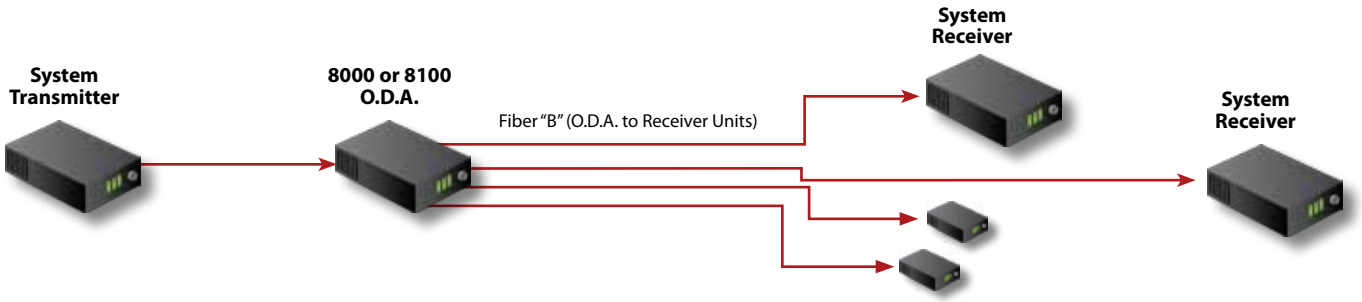
System Source Transmitter	Loss Budget in dB for Fiber "A"	Max. Distance in km for Fiber "A"	8000 & 8100 Part Number Configuration for "y"
P/N: Flex System (1-way systems only)			
Part Suffix			
-1	0-18	2	8
-3	0-1	0.3	3
-7	2-18	40	3
-9	0-17	55	3
P/N: 3132			
Part Suffix			
-x9pp	0-15	0.5 (MM)* or 50 (SM)**	3
P/N: 3440			
Part Suffix			
-x1z	0-18	2	8
P/N: 4040			
Part Suffix			
-x1z	0-20	1	8
-x3z	2-18	5	3
-x7z	2-16	35	3
-x9z	0-17	55	3
P/N: 4160, 4320			
Part Suffix			
-zz1y or -zzy1	0-20	1	8
-zz3y or -zzy3	2-18	5	3
-zz7y or -zzy7	2-16	35	3
-zz9y or -zzy9	0-17	55	3
P/N: 7030, 7040, 7050, 7060, 7070, 7100, 7130, 7140			
Part Suffix			
-x1z	0-13	0.75	8
-x3z	2-18	2	3
-x7z	2-16	35	3
-x9z	2-17	55	3
P/N: 7220, 7222, 7224, 7226, 7225, 7227, 7242			
Part Suffix			
-x7z	0-12	0.5 (MM)* or 20 (SM)**	3
-x9z***	0-12	0.4 (MM)* or 20 (SM)**	3

*(MM) = transmitted over multimode fiber; **(SM) = transmitted over single mode fiber; ***Discontinued product

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

8000 & 8100 Optical Distribution Series

Loss budgets and transmission distances



System Receiver	Loss Budget in dB for Fibers "B"	Max. Distance in km for Fibers "B"	Part Number Configuration for "w" 8000	8100
P/N: Flex System (1-way systems only)				
Part Suffix				
-1	0-18	2	A or B	J or K
-3	0-28	18	C or D	L or M
-7	0-28	60	C or D	L or M
P/N: 3133				
Part Suffix				
-x9pp	0-13	0.5 (MM)* or 40 (SM)**	G or H	Q or R
P/N: 3441				
Part Suffix				
-x1z	0-16	2	A or B	J or K
P/N: 4041				
Part Suffix				
-x1z	0-20	1	A or B	J or K
-x3z	0-25	10	C or D	L or M
-x7z	0-23	55	C or D	L or M
P/N: 4161, 4321				
Part Suffix				
-zz1y or -zzy1	0-20	1	A or B	J or K
-zz3y or -zzy3	0-25	10	C or D	L or M
-zz7y or -zzy7	0-23	55	C or D	L or M
P/N: 7031, 7041, 7051, 7061, 7071, 7101, 7131, 7141				
Part Suffix				
-x1z	0-13	0.75	A or B	J or K
-x3z	0-23	2	C or D	L or M
-x7z	0-21	45	C or D	L or M
-x9z	0-17	55	G or H	Q or R
P/N: 7221, 7223, 7225, 7227, 7243				
Part Suffix				
-x7z	0-12	0.5 (MM)* pr 20 (SM)**	E or F	N or P
-x9z***	0-12	0.4 (MM)* or 20 (SM)**	G or H	Q or R

*(MM) = transmitted over multimode fiber; **(SM) = transmitted over single mode fiber; ***Discontinued product

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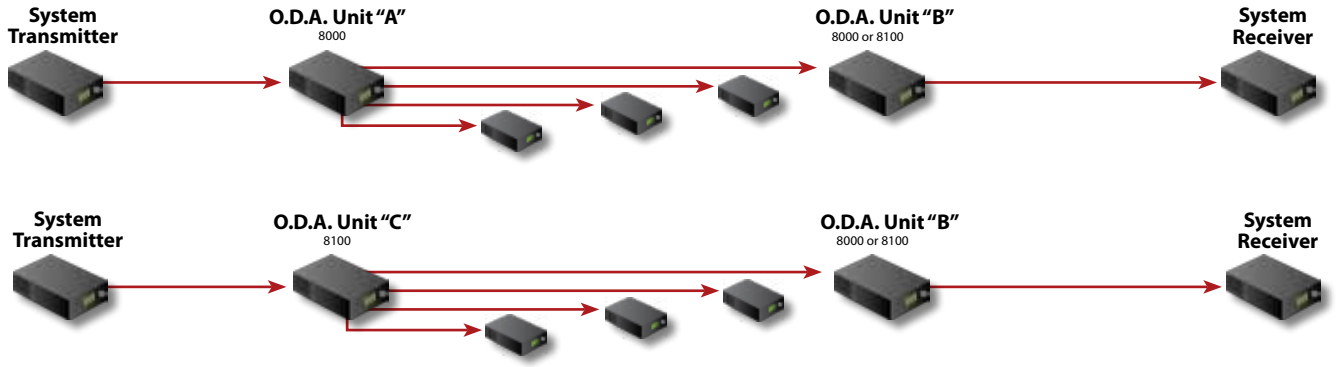
8000 & 8100 Optical Distribution Series

Loss budgets and transmission distances



Note: When two or more O.D.A units are cascaded together, loss budgets and distances should be derated by 10% for each additional O.D.A.

System Source Transmitter	Unit "A" Configuration for "w"	Unit "C" Configuration for "w"	Loss Budget in dB	Max. Distance in km	Unit "B" Configuration for "y"
P/N: Flex System (1-way systems only)					
Part Suffix					
-1	A or B	J or K	0-16	1.5	8
-3	C or D	L or M	2-17	11	3
-7	C or D	L or M	2-18	40	3
P/N: 3132					
Part Suffix					
-x9pp	G or H	Q or R	0-15	0.5 (MM)* or 50 (SM)**	3
P/N: 3440					
Part Suffix					
-x1y	A or B	J or K	0-18	2	8
P/N: 4040					
Part Suffix					
-x1z	A or B	J or K	0-20	1	8
-x3z	C or D	L or M	2-18	5	3
-x7z	C or D	L or M	2-16	35	3
P/N: 4160, 4320					
Part Suffix					
-zz1y or zzy1	A or B	J or K	0-20	1	8
-zz3y or zzy3	C or D	L or M	2-18	5	3
-zz7y or zzy7	C or D	L or M	2-16	35	3
P/N: 7030, 7040, 7050, 7060, 7070, 7100, 7130, 7140					
Part Suffix					
-x1z	A or B	J or K	0-13	0.75	8
-x3z	C or D	L or M	2-18	2	3
-x7z	C or D	L or M	2-16	35	3
-x9z	G or H	Q or R	2-17	55	3
P/N: 7220, 7224, 7226, 7225, 7227, 7242					
Part Suffix					
-x7z	E or F	N or P	0-11	0.5 (MM)* or 20 (SM)**	3
-x9z***	G or H	Q or R	0-11	20 (SM)**	3

*(MM) = transmitted over multimode fiber; **(SM)= transmitted over single mode fiber; *** Discontinued product

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

6500 Optical Splitter Series

Passive optical splitters allow transmission from one fiber optic transmitter to multiple receiver units by "splitting" optical power across outputs

Ideal Applications:

Digital Signage,
Multipoint Surveillance Monitoring

Signal	Channels	Direction
All Types	2 or 4	→

Features

Passive optical splitters "split" the optical power from a one-way fiber optic transmitter to drive multiple fibers simultaneously

As optical power is "split" between outputs, each output incurs "optical loss", specified in dB

Works with all Fiberlink® one-way systems

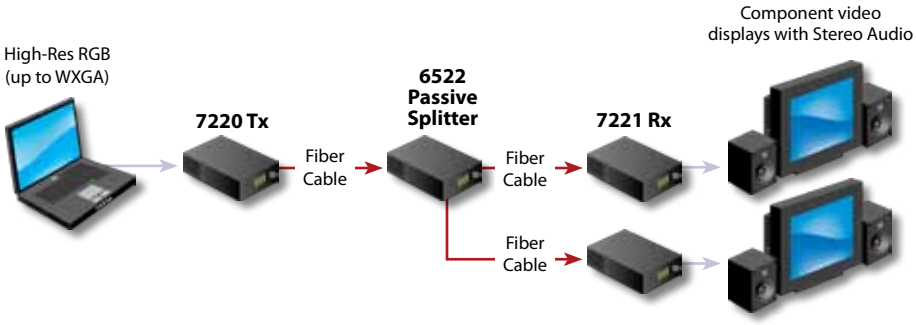
Due to optical loss, distance supported will be significantly less than in point-to-point systems. For support of longer distances, refer to Series 8000 and 8100 active distribution amplifiers

No power required

Models available for use with either single mode or multimode fiber with two or four outputs

Available with either ST or FCPC connectors

Card version fits in 6000A card cage



Ordering Information

Part Number	Description	Type of Fiber
6512-1-Bz	1 x 2 Passive Splitter Box Version	MM
6512-1-Cz	1 x 2 Passive Splitter Card Version	MM
6522-1-Bz	1 x 2 Passive Splitter Box Version	SM
6522-1-Cz	1 x 2 Passive Splitter Card Version	SM
6514-1-Bz	1 x 4 Passive Splitter Box Version	MM
6514-1-Cz	1 x 4 Passive Splitter Card Version	MM
6524-1-Bz	1 x 4 Passive Splitter Box Version	SM
6524-1-Cz	1 x 4 Passive Splitter Card Version	SM

Part Number Suffix Codes:

z: S ST Connector
F FCPC Connector

Sales

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631-273-0404 | commspecial.com
info@commspecial.com

General Specifications

Number of Fibers	1 in; 2 or 4 out
Operating Wavelength	6512 & 6514: 850/1310nm, Multimode 6522 & 6524: 1310/1550nm, Single Mode
Insertion Loss (each output)	6512 & 6522: 3.5 to 4.5 dB 6514 & 6524: 6.5 to 8.0 dB
Power Requirements	none
Operating Temperature Range	-35° to +74° C
Relative Humidity	10% - 95% (non-condensing)
Optical Connectors	ST or FCPC
Physical Size	1.2 H x 5 W x 7 D (inches) 30 H x 127 W x 178 D (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	6512 & 6522: 1 6514 & 6524: 2

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Videoconferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

The **Fiberlink®** line offers an extensive and affordable family of fiber optic transmission systems for the Professional A/V marketplace and includes several ground-breaking products for the transmission of high-resolution RGB signals. Systems for point-to-point and point-to-multipoint signal distribution make these products highly desirable for any Pro A/V architecture. New products are constantly being designed and developed and you can get the latest information at commspecial.com

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

6500 Optical Splitter Series

GSA Schedule
Contract GS-03F-5063C

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

You may be interested in the Fiberlink 6400 Series:

Passive optical wave division multiplexers that allow two separate fiber optic links to operate at different wavelengths over a singe fiber!

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Made in the USA

FIBERLINK® FLEXPOD

Configurable passive optical signal distribution system to create up to 4 different and independent optical CWDMs, WDMs and/or Splitters in 1RU!

Ordering Information

Fiberlink® FlexPOD is a highly configurable product and not all of FlexPODs option bays need to be filled. Required portions of the FlexPOD part number are indicated in red in the diagram below.

CWDM Options	Description	# of Bays
C04S	4 Channel CWDM, Single Mode	1
C08S	8 Channel CWDM, Single Mode	2
C16S	16 Channel CWDM, Single Mode	4

WDM Options	Description	# of Bays
W02M	850/1310 WDM, Multimode	1
W02S	1310/1550 WDM, Single Mode	1

Splitter Options	Description	# of Bays
S02M	2 Channel Splitter, Multimode	1
S02S	2 Channel Splitter, Single Mode	1
S04M	4 Channel Splitter, Multimode	1
S04S	4 Channel Splitter, Single Mode	1

Connector	Description
S	ST Connector
L	LC Connector

Features

Can be externally interconnected to create flexible passive distribution

Compatible with CSI's line of fiber optic transmitters and receives for passive distribution of optical signals

Can be used upstream, mid-stream or downstream for maximum installation flexibility

Low-loss passive insertion

One-way or bidirectional use

Three CWDM, two WDM and 4 splitter options available

Available with LC or ST connectors

Single mode and multimode fiber support in the same FlexPOD chassis

Not all option bays need to be used and unused bays are factory upgradeable

No power required for operation

Sales

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Fiberlink® FlexPOD General Specifications

Power	No power required for operation
Operating Temperature	-20° C to +70° C
Relative Humidity	0 - 95%, non condensing
Dimensions	16.75 W x 1.75 H x 10 D (inches) 425 W x 44 H x 254 D (mm) (without rackmount ears)
Optical Connector	ST or LC; connector type must be the same for all options within FlexPOD unit
Cable Type Supported	See Option Specifications; different cable types may be specified for different options within the same FlexPOD unit
Maximum Number of Options	Up to 4 bays may be occupied; see Option Specifications to determine number of bays required for that option
MTBF	100,000 Hours

CWDM Option Specifications

General Specifications

Channels	4, 8 or 16
Directionality	Each port can communicate in either direction (In or Out) independent of other ports
Connectors	ST or LC
Fiber Type	Single Mode
Maximum Insertion Loss	4 Channel: 2 dB 8 Channel: 3 dB 16 Channel: 5.5 dB
Cable Type Supported	Single Mode only
Number of Bays	4 Channel: 1 Bay 8 Channel: 2 Bays 16 Channel: 4 Bays

Wavelength Specifications (in nanometers)

4 Channel Version	1570, 1550, 1530, 1510
8 Channel Version	1610, 1590, 1570, 1550, 1530, 1510, 1490, 1470
16 Channel Version	1610, 1590, 1570, 1550, 1530, 1510, 1490, 1470, 1450, 1430, 1410, 1390, 1370, 1350, 1330, 1310

WDM Option Specifications

Operating Wavelength	Multimode: Single Mode:	850 / 1310 nm 1310 / 1550 nm
Insertion Loss (each output)	Multimode: Single Mode:	1.0 to 2.0 dB 0.5 to 1.5 dB
Cable Type Supported	Single Mode or Multimode	
Number of Bays	1	

Splitter Option Specifications

Operating Wavelength	Multimode: Single Mode:	850 / 1310 nm 1310 / 1550 nm
Insertion Loss (each output)	2 Channel: 4 Channel:	3.5 to 4.5 dB 6.5 to 8.0 dB
Cable Type Supported	Single Mode or Multimode	
Number of Bays	1	

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FlexPOD Flexible Passive Optical Distributor

GSA Schedule
Contract GS-03F-5063C

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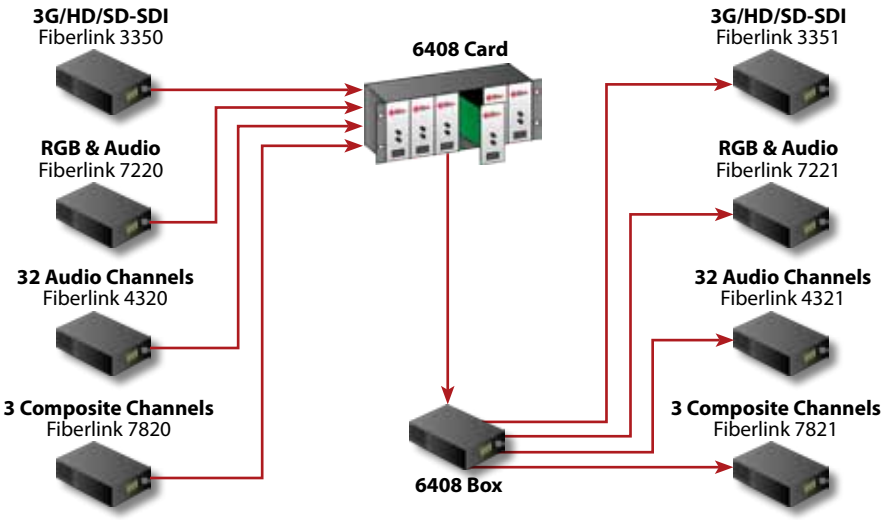
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

6400 CWDM Series

Coarse wave division multiplexers (CWDM) allow 4 or 8 fiber optic links to operate at different wavelengths over a single fiber

Ideal Applications:

The 6400 Series is ideal for virtually every fiber optic application to reduce fiber usage, consolidate signals where fiber capacity is limited and maximize the bandwidth of single mode fiber.



Signal	No. Optical Signals	Direction
All Types	4 or 8	→ ↔

Features

Combine 4 or 8 optical signals at different wavelengths onto a single fiber.

May be used to transmit separate optical signals in the same direction or in opposite directions in the same unit

Works with most Fiberlink® one-way and two-fiber two-way systems. Contact sales for compatibility.

Available in box and card versions

Available with LC or ST type connectors

Typically used in pairs.
Each unit sold separately

No power required

4 and 8 channel card version fills two slots in 6000A card cage

16 Channel version available in Fiberlink FlexPOD Series

Ordering Information

Part Number	Description
6404-Bz	4 Channel CWDM, Box Version
6404-Cz	4 Channel CWDM, Card Version
6408-Bz	8 Channel CWDM, Box Version
6408-Cz	8 Channel CWDM, Card Version

z: S ST Connector
L LC Connector

Note: For 16 Channel version, please see Fiberlink FlexPOD Series Datasheet (commspecial.com/FlexPOD)

Sales

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631-273-0404 | commspecial.com
info@commspecial.com

General Specifications

Channels:	4 or 8 16 Channel version available in Fiberlink FlexPOD Series
Directionality:	Each port can communicate in either direction (In or Out) independent of other ports
Connectors:	ST or LC
Fiber Type:	Single Mode
Maximum Insertion Loss:	4 Channel: 2 dB 8 Channel: 3 dB
Box Dimensions	1.2 H x 5 W x 7 D (inches) 30 H x 127 W x 178 D (mm)
Slots filled in 6000A Card Cage:	2 Slots
Power Requirements:	No power required
Operating Temperature:	-5° C to +60° C
Compatibility:	Compatible with most Fiberlink one-way and two-fiber two-way systems. Contact CSI Sales for compatibility.

Wavelengths (in nanometers)

4 Channel Version	1570, 1550, 1530, 1510
8 Channel Version	1610, 1590, 1570, 1550, 1530, 1510, 1490, 1470

Need 16 Channels or maximum flexibility?

Fiberlink FlexPOD can be configured with a CWDM to multiplex up to 16 optical signals on a single fiber, 4 WDMs to multiplex 8 signals onto 4 fibers, 4 optical splitters to split 4 input sources onto 16 fibers, or any combination of CWDMs, WDMs and splitters. Learn more at commspecial.com/FlexPOD

You may be interested in the Fiberlink 6500 Splitter Series:

Passive optical splitter that allows transmission from one fiber optic transmitter to multiple receiver units by "splitting" optical power across units.

You may be interested in the Fiberlink 6400 WDM Series:

Passive optical wave division multiplexers that allow two fiber optic links to operate at different wavelengths over a single fiber

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VIDEO, AUDIO & DATA OVER FIBER

6400 CWDM Series

GSA Schedule
Contract GS-03F-5063C

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
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VIDEO, AUDIO & DATA OVER FIBER

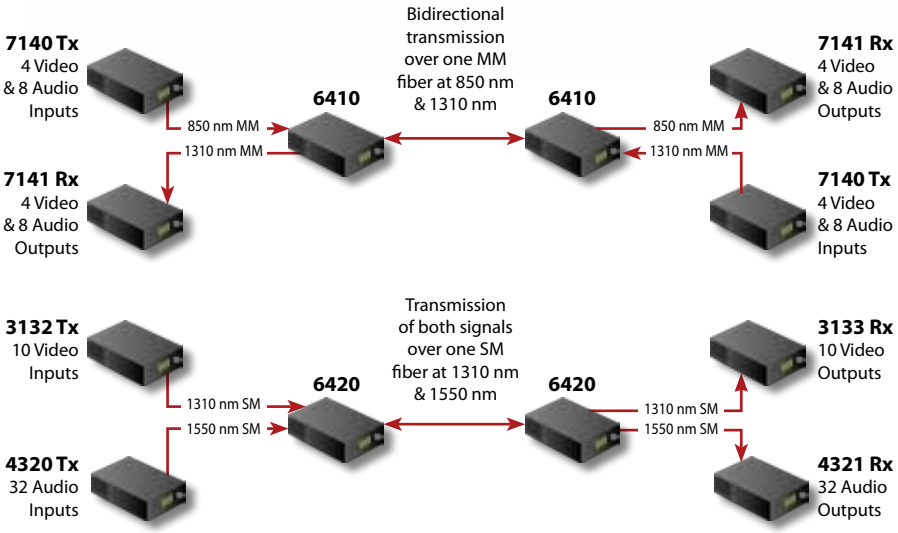
6400 WDM Series

Passive optical wave division multiplexers allow two fiber optic links to operate at different wavelengths over a single fiber

Ideal Applications:

Remote Court Arraignment, Videoconferencing

Signal	No. Optical Signals	Direction
All Types	2	→ or ↔



Features

Passive wave division multiplexers (WDMs) combine two optical signals at different wavelengths onto a single fiber

May be used to transmit two separate optical signals in the same direction or in opposite directions

Works with all Fiberlink® one-way systems

Typically used in pairs. Each unit sold separately

No power required

Models available for use with either single mode or multimode fiber

Available with either ST or FCPC connectors

Card version fills one slot in 6000A card cage

Ordering Information

Part Number	Description	Type of Fiber
6410-Bz	WDM; 850/1310nm Box Version	MM
6410-Cz	WDM; 850/1310nm Card Version	MM
6420-Bz	WDM; 1310/1550nm Box Version	SM
6420-Cz	WDM; 1310/1550nm Card Version	SM

Part Number Suffix Codes:

z: S ST Connector
F FCPC Connector

Sales

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General Specifications

Number of Fibers	1
Operating Wavelength	6410: 850 / 1310nm, Multimode 6420: 1310 / 1550nm, Single Mode
Insertion Loss (each output)	6410: 1.0 to 2.0 dB 6420: 0.5 to 1.5 dB
Power Requirements	none
Operating Temperature Range	-35° to +74° C
Relative Humidity	10% - 95% (non-condensing)
Optical Connectors	ST or FCPC
Physical Size	1.2 H x 5 W x 7 D (inches) 30 H x 127 W x 178 D (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	1

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

6400 WDM Series

GSA Schedule
Contract GS-03F-5063C

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

You may be interested in the Fiberlink 6400 CWDM Series:

Complex wave division multiplexers allow 4, 8 or 16 fiber optic links to operate at different wavelengths over a single fiber

You may be interested in the Fiberlink 6500 Series:

Passive optical splitter that allows transmission from one fiber optic transmitter to multiple receiver units by "splitting" optical power across units.

Want to learn more about fiber?

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Made in the USA

Audio Only

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

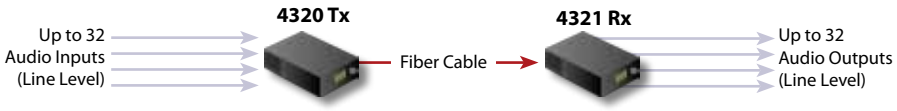
4320 Audio Series

Thirty-two independent audio channels digitally transmitted over one fiber with optional redundancy

Signal	Channels	Direction
Audio	32	→

Ideal Applications:

Rental, Staging, Theater, Stadiums, Theme Parks, Broadcast



Features

Transmits over one multimode or single mode fiber at 850, 1310 or 1550 nm

Optional redundant optical input/output

System consists of transmitter and receiver unit

No adjustments; pure digital processing and transmission

24 bit/96 kHz sampling; maximum audio level +24 dBu

20 Hz to 20 kHz frequency response

Line level, balanced or unbalanced audio operation

Indicator LEDs monitor audio signals and power

Wide range internal power supply

Unit stands 1 RU high. Rackmount ears are included

Ordering Information

Part Number	Description	Fiber Cores
4320-z^1z^2-y^1y^2-pp	Transmitter, Box Version	1
4321-z^1z^2-y^1y^2-pp	Receiver, Box Version	1

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

z_1 = optical connector type for main output (4320) and main input (4321). An option **must** be specified.

- S ST connector
- F FC connector

y_1 = wavelength selection for main output (4320) and main input (4321). An option **must** be specified.

- 1 850 nm multimode
- 3 1310 nm multimode
- 7 1310 nm single mode
- 9 1550 nm single mode

z_2 = optical connector type for **optional** second output (4320) and input (4321).

- N no second input/output
- S ST connector
- F FC connector

y_2 = wavelength selection for **optional** second/redundant output (4320) and input (4321).

- 0 no second input/output
- 1 850 nm multimode
- 3 1310 nm multimode
- 7 1310 nm single mode
- 9 1550 nm single mode

Sales

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Audio Specifications

Number of Audio Channels	32, balanced or unbalanced
Frequency Response	20 Hz - 20 kHz, +0/-0.5 dB
Bits-per-Sample/Sampling Rate	24 bits; 96 kHz
Maximum Audio Level	+24 dBu
SNR (A-Weighted)	95 dB
THD+N	0.002%; 20 Hz - 20 kHz
Channel Phase Differential	0.1°
System Latency	200 uS + fiber cable propagation delay (typically 5 uS/km of fiber)
Input Impedance	600 Ohms terminated; 24 k Ohms unterminated
Output Impedance	50 Ohms
Audio Connectors	Removable screw terminal
Switches	Dip switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis

General Specifications

LED Indicators	Power; Audio Present (per channel);
Power Requirements*	95-250 volts AC, 47-63 Hz
Operating Temperature Range	-35° to +55° C
Relative Humidity	10%-90% (non-condensing)
Optical Connectors	ST or FCPC
Operating Wavelength	850, 1310 or 1550 nm
Physical Size	1.75 H x 16.75 W x 10 D (inches) 44 H x 425 W x 254 D (mm) Unit stands 1 RU high
Weight	Approximately 5 lbs.; 2.25 kg

About CSI

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

4320 Audio Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-20	0-2
1310 MM	0-25	0-10
1310 SM	0-23	0-55
1550 SM	0-25	0-80

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

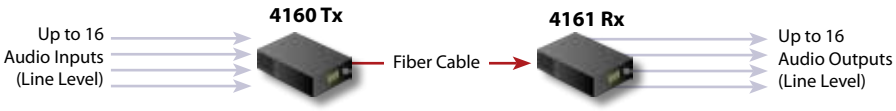
4160 Audio Series

Sixteen independent audio channels digitially transmitted over one fiber with optional redundancy

Ideal Applications:

Rental, Staging, Theater, Stadiums, Theme Parks, Broadcast

Signal	Channels	Direction
Audio	16	→



Features

Transmits over one multimode or single mode fiber at 850, 1310 or 1550 nm

Optional redundant optical input/output

System consists of transmitter and receiver unit

No adjustments; pure digital processing and transmission

24 bit/96 kHz sampling; maximum audio level +24 dBu

20 Hz to 20 kHz frequency response

Line level, balanced or unbalanced audio operation

Indicator LEDs monitor audio signals and power

Wide range internal power supply

Unit stands 1 RU high.
Rackmount ears are included

Ordering Information

Part Number	Description	Fiber Cores
4160-z_1z_2-y_1y_2-pp	Transmitter, Box Version	1
4161-z_1z_2-y_1y_2-pp	Receiver, Box Version	1

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

z_1 = optical connector type for main output (4160) and main input (4161). An option **must** be specified.

- S ST connector
- F FC connector

y_1 = wavelength selection for main output (4160) and main input (4161). An option **must** be specified.

- 1 850 nm multimode
- 3 1310 nm multimode
- 7 1310 nm single mode
- 9 1550 nm single mode

z_2 = optical connector type for **optional** second output (4160) and input (4161).

- N no second input/output
- S ST connector
- F FC connector

y_2 = wavelength selection for **optional** second/redundant output (4160) and input (4161).

- 0 no second input/output
- 1 850 nm multimode
- 3 1310 nm multimode
- 7 1310 nm single mode
- 9 1550 nm single mode

Sales

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Audio Specifications

Number of Audio Channels	16, balanced or unbalanced
Frequency Response	20 Hz - 20 kHz, +0/-0.5 dB
Bits-per-Sample/Sampling Rate	24 bits; 96 kHz
Maximum Audio Level	+24 dBu
SNR (A-Weighted)	95 dB
THD+N	0.002%; 20 Hz - 20 kHz
Channel Phase Differential	0.1°
System Latency	200 uS + fiber cable propagation delay (typically 5 uS/km of fiber)
Input Impedance	600 Ohms terminated; 24 k Ohms unterminated
Output Impedance	50 Ohms
Audio Connectors	Removeable screw terminal
Switches	Dip switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis

General Specifications

LED Indicators	Power; Audio Present (per channel)
Power Requirements*	95-250 volts AC, 47-63 Hz
Operating Temperature Range	-35° to +55° C
Relative Humidity	10%-90% (non-condensing)
Optical Connectors	ST or FCPC
Operating Wavelength	850, 1310 or 1550 nm
Physical Size	1.75 H x 16.75 W x 10 D (inches) 44 H x 425 W x 254 D (mm) Unit stands 1 RU high
Weight	Approximately 5 lbs.; 2.25 kg

About CSI

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VIDEO, AUDIO & DATA OVER FIBER

4160 Audio Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-20	0-2
1310 MM	0-25	0-10
1310 SM	0-23	0-55
1550 SM	0-25	0-80

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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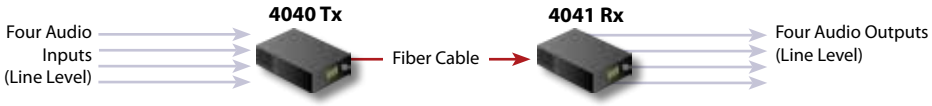
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

4040 Audio Series

Four independent audio channels
digitally transmitted over one fiber

Ideal Applications:

Rental, Staging, Education, Broadcast



Signal	Channels	Direction
Audio	4	→

Features

Transmits over one multimode or single mode fiber at 850, 1310 or 1550 nm

No adjustments; pure digital processing and transmission

24 bit/96 kHz sampling; maximum audio level +24 dBu

20 Hz to 20 kHz frequency response

Line level, balanced or unbalanced audio operation

Indicator LEDs monitor audio signals and power

Wide range power supply allows operation from low voltage AC and DC sources

Card version fills one slot in 6000A card cage

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately.

RoHS Compliant

Ordering Information

Part Number	Description	Fiber Cores
4040-Byz	Transmitter, Box Version	1
4040-Cyz	Transmitter, Card Version	1
4041-Byz	Receiver, Box Version	1
4041-Cyz	Receiver, Card Version	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Part Number Suffix Codes:

y:
- 1 850 nm Multimode
- 3 1310 nm Multimode
- 7 1310 nm Single Mode
- 9 1550 nm Single Mode

z:
- S ST Connector
- F FCPC Connector

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Audio Specifications

Number of Audio Channels	4, balanced or unbalanced
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; 96 kHz
Maximum Audio Level	+24 dBu
SNR (A-Weighted)	95 dB
THD+N	0.002%, 20 Hz - 20 kHz
Channel Phase Differential	±0.1°
System Latency	200 uS + fiber cable propagation delay (typically 5 uS/km of fiber)
Crosstalk	Min. 95 dB (1 kHz)
Input Impedance	600 Ohms terminated; >24 k Ohms unterminated
Output Impedance	50 Ohms
Audio Connectors	Removable screw terminal
Switches	Dip switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis

General Specifications

LED Indicators	Power; Audio Present (per channel); Alarm LED (card version only)
Power Requirements*	9-24 volts AC or DC, 5 watts
Operating Temperature Range	-35° to +60° C
Relative Humidity	10%-90% (non-condensing)
Optical Connectors	ST or FCPC
Operating Wavelength	850, 1310 or 1550 nm
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	1
MTBF	83,000 Hours

* For operation from 95-250VAC, 50/60Hz, a PDPS-1 plug-in adapter is required.

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

4040 Audio Series

GSA Schedule Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-20	0-2
1310 MM	0-25	0-10
1310 SM	0-23	0-55
1550 SM	0-25	0-80

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

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Specialty Data

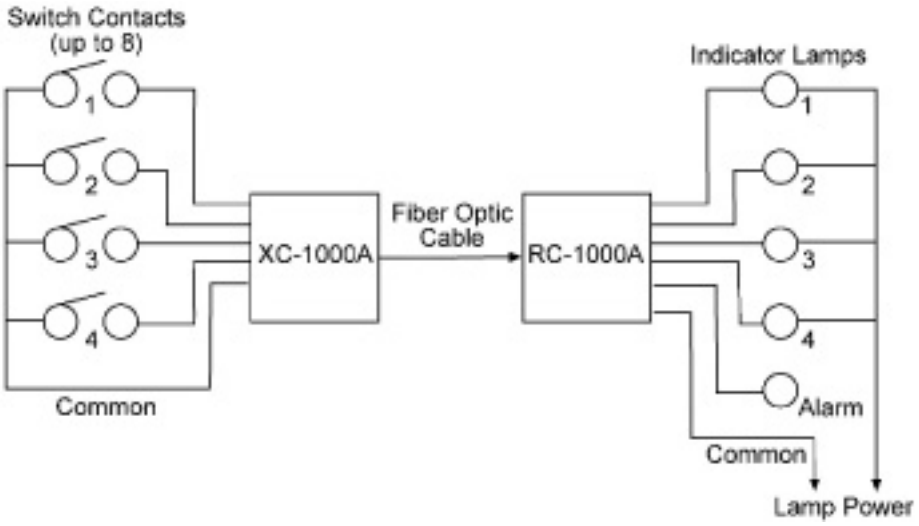
FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

XC/RC-1000A

Transmits eight independent contact closure or TTL signals over a single fiber

Ideal Applications:

Security Centers, Casinos, Power Plants and Industrial Facilities all make smart use of the XC/RC 1000A!



Signal	Channels	Direction
Contact, TTL	8	→

Features

Eight independent channels multiplexed over a single fiber

Channels support contact or TTL signals and may be used in any combination

LEDs on both units display channels in use

Open collector output is provided for loss of signal

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately

Card version fills one slot in MCR-1000A rackmountable card cage

Ordering Information

Part Number	Description	Fiber Cores
XC-1000A-1	Transmitter Box, 850 nm, Multimode	1
XC-1000A-3	Transmitter Box, 1310 nm, Multimode	1
XC-1000A-7	Transmitter Box, 1310 nm, Single Mode	1
RC-1000A-1	Receiver Box, 850 nm, Multimode	1
RC-1000A-3	Receiver Box, 1310 nm, Multimode	1
RC-1000A-7	Receiver Box, 1310 nm, Single Mode	1
MCR-1000A*	Rackmountable Card Cage	
XP-1000A	115 volts AC, 50/60 Hz plug-in adaptor	
XP-1001	230 volts AC, 50/60 Hz plug-in adaptor	

*To order a rackmounted version of an XC-1000A or RC-1000A unit, add an "/MCR" to the part number followed by a "-1", "-3" or "-7". Each module occupies one slot in the MCR-1000A card cage. Please note that the card versions of these products are NOT compatible with the model 6000A card cage used with most Fiberlink products.

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Data Specifications

Number of Channels	8
Transmitter Input	Contact closure or TTL
Receiver Output	Contact closure or TTL
Contact Closure Rating	0.5A, resistive (10 VA)
Relay Status	Normally open
Speed of Response	2 msec typical

General Specifications

Number of Fibers	1
Operating Temperature	0 to +50° C
Operating Power (per unit)	+10 to +18 volts DC @ 200 mA or +10 to +18 volts AC rms @ 200 mA
Dimensions	5.75 W x 1.75 H x 4 L (inches) 146 W x 45 H x 102 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Optical Connectors	ST: multimode; FCPC: single mode
Optical Wavelength	850 or 1310 nm
Optical Fiber	50 or 62.5 micron multimode fiber 8/10 micron single mode fiber

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

XC/RC-1000A

GSA Schedule
Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)
50 micron	0-8
62.5 micron	0-10
8/10 micron	0-10

For system to operate properly, operating loss budget must not be exceeded.

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The **Fiberlink®** line offers an extensive and affordable family of fiber optic transmission systems for the Professional A/V marketplace and includes several ground-breaking products for the transmission of high-resolution RGB signals. Systems for point-to-point and point-to-multipoint signal distribution make these products highly desirable for any Pro A/V architecture. New products are constantly being designed and developed and you can get the latest information at commspecial.com

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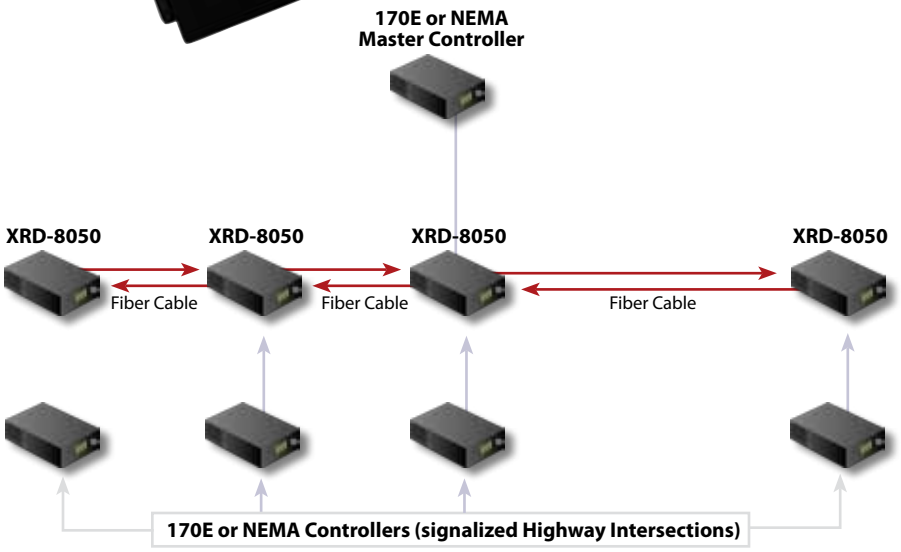
XRD-8050

Fiber optic data transmission for
CALTRANS 170 or 179 series and
NEMA traffic signal controller applications

Ideal Applications:

Intelligent Transportation, Traffic and Control



Signal	Channels	Direction
CALTRANS /NEMA	Dual	⟷

Features

Implements a fiber optic master/local data bus for traffic signal controller networks

Works with CALTRANS 170-Series, CALTRANS 179-Series and NEMA controllers

Each transceiver, plus power supply, must be purchased separately

Units are "daisy-chained" in a linear multi-drop configuration

User-adjustable anti-streaming time-out feature

12-hour internal battery back-up

Meets CALTRANS and NEMA traffic signal control equipment environmental requirements

Ordering Information

Part Number	Description	Number of Fibers
XRD-8050-1	Transmitter Box, 850 nm, Multimode	4
XRD-8050-3	Transmitter Box, 1310 nm, Multimode	4
XRD-8050-7	Transmitter Box, 1310 nm, Single Mode	4
XP-1000AW	115 volts AC, 50/60 Hz plug-in adaptor	
XP-1001W	230 volts AC, 50/60 Hz plug-in adaptor	

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Data Specifications

Number of Channels	1
Number of Outputs per Channel	2
System Protocol:	RS-232
Control Signals:	RTS, CTS, DTR, DCD, DSR
Transmission Format	Asynchronous
System Bandwidth	0-150 Kb/sec
Signal Connectors	DB-25S

General Specifications

Number of Fibers	4
Operating Temperature	-37 to +74°C ambient
Operating Power (per unit)	+12 to +18 volts DC or AC @ 300 mA max. provided by external power source
Dimensions	7 W x 5 H x 2 L (inches) 128 W x 127 H x 51 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Optical Connectors	ST: multimode; FCPC: single mode
Optical Wavelength	850 or 1310 nm
Optical Fiber	50 or 62.5 micron multimode fiber 8/10 micron single mode fiber
Indicator LEDs	Anti-streaming, TD1, RD1, TD2, RD2, power
Shock	Per military specification MIL-STD-810D, Method 514.1, equipment class G

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XRD-8050

GSA Schedule
Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)
50 micron	0-12
62.5 micron	0-15
8/10 micron	0-17

For system to operate properly, operating loss budget must not be exceeded.

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IRIG

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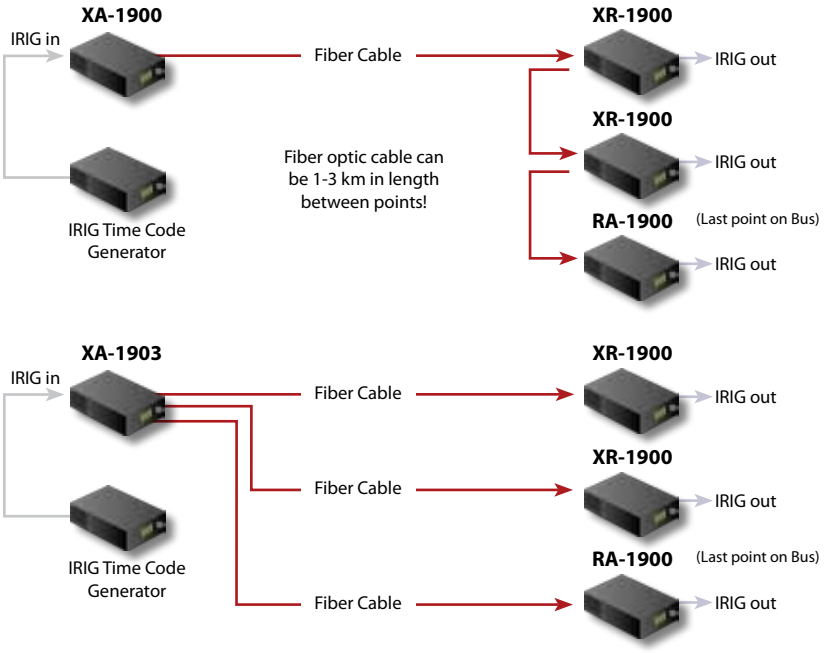
XA/RA-1900A, XR-1900, XA-1903

Fiber optic transmission of IRIG time-code signals, configured for point-to-point, point-to-multipoint or drop-and-repeat signal distribution

Ideal Applications:

Military and the Aerospace Industries



Signal	Channels	Direction
XA-1900/RA-1900 - Analog		
IRIG	1	→
XR-1900 - Analog		
IRIG	1	↔
XA-1903 - Analog		
IRIG	1	→

Ordering Information

Part Numner	Description	Number of Fibers
XA-1900-1	Transmitter Box, 850 nm, Multimode	1
XA-1900-3	Transmitter Box, 1310 nm, Multimode	1
XA-1900-7	Transmitter Box, 1310 nm, Single Mode	1
RA-1900-1	Receiver Box, 850 nm, Multimode	1
RA-1900-3	Receiver Box, 1310 nm, Multimode	1
RA-1900-7	Receiver Box, 1310 nm, Single Mode	1
XR-1900-1	Transceiver Box, 850 nm, Multimode	2
XR-1900-3	Transceiver Box, 1310 nm, Multimode	2
XR-1900-7	Transceiver Box, 1310 nm, Single Mode	2
XA-1903-1	Transmitter Box, 850 nm, Multimode	10
XA-1903-3	Transmitter Box, 1310 nm, Multimode	10
MCR-1000A*	Rackmountable Card Cage	
AP-1000	Adaptor plate for mounting XA/RA-1900 units within MCR-1000A card cage	
XP-1000A	115 volts AC, 50/60 Hz plug-in adaptor	
XP-1001	230 volts AC, 50/60 Hz plug-in adaptor	

*To order a rackmounted version of the XR-1900, add "/MCR" to the part number, followed by a "-1", "-3" or "-7". To order rackmounted versions of the XA/RA-1900, order an AP-1000 for use with each unit. Each module occupies one slot in the MCR-1000A card cage. Please note that the card versions of these products are NOT compatible with the model 6000A card cage used with most Fiberlink products.

The XA-1903 is provided in a 19" rackmountable enclosure.

Features

Transmits IRIG and similar NASA and NBS standard instrumentation time-code formats up to 100 kHz

Combinations of four different units may be configured to provide point-to-point, point-to-multipoint or drop-and-repeat signal distribution. Each unit must be purchased separately

Built-in regulated power supplies allow operation from unregulated AC or DC sources

Transmits at 850 nm or 1310 nm over standard multimode or single mode fiber

System can be configured for four wire modem or AFSK applications

XA/RA-1900A and XR-1900 models may be mounted in the MCR-1000A card cage. The XA-1903 is provided in a 19" rackmountable enclosure

Sales

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Data Specifications

Number of Channels	1
Number of Outputs per Channel	XA/RA/XR-1900: 1, XA-1903: 10
IRIG Compatibility	A through H
System Bandwidth (+0, -3 dB)	20 Hz to 100 kHz
Input/Output Load Impedance	600 Ohms nominal
Input/Output Signal Voltage	1 volt rms
Signal/Noise Ratio	67 dB typical
Noise Floor (full bandwidth)	1.3 mv rms maximum

General Specifications

Number of Fibers	XA/RA-1900: 1 fiber XR-1900: 2 fibers XA-1903: 10 fibers
Operating Temperature	-20 to +60° C
Operating Power (per unit)	+15 to +25 volts DC @ 250 mA or 14 to 18 volts AC, 50/60 Hz
Dimensions	XA-1900 and RA-1900: 5 W x 1.25 H x 2.5 L (inches) 127 W x 32 H x 64 L (mm) XR-1900: 5.75 W x 1.25 H x 4 L (inches) 146 W x 32 H x 102 L (mm) XA-1903: 19 W x 1.75 H x 6.5 L (inches) 483 W x 45 H x 165 L (mm)
Weight	XA-1900, RA-1900, XR-1900: Approx. 1 lb; 0.45 kg XA-1903: Approx. 3 lbs; 1.36 kg
Optical Connectors	ST: Multimode, FCPC: Single Mode
Optical Wavelength	850 nm/MM, 1310 nm/MM, 1310 nm/SM
Optical Fiber	50 or 62.5 micron multimode fiber, 8/10 micron single mode
System Delay	< 5 uSec; Measured from a Transmitter input to a Receiver output with 1 meter of fiber. Does not include any additional length of fiber. Consult fiber cable manufacturer for specific propagation delay. An approximate fiber cable propagation delay is approximately 5 uSec/km.
MTBF:	XA-1900 series: 195,000 hours RA-1900 series: 181,000 hours XR-1900 series: 91,000 hours XA-1903 series: 74,000 hours

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

XA/RA-1900A, XR-1900, XA-1903

GSA Schedule
Contract GS-03F-5063C

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)
50 micron	0-10
62.5 micron	0-13
8/10 micron	0-10

For system to operate properly, operating loss budget must not be exceeded.

Want to learn more about fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Sales

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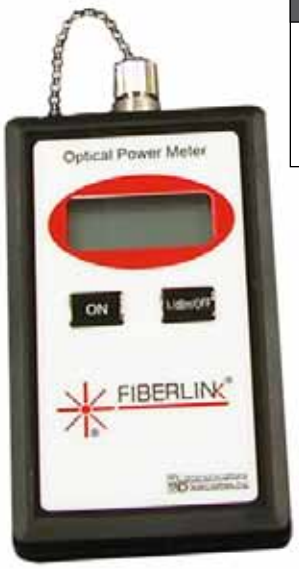
Made in the USA

Test Equipment

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Optical Testing Devices

Light sources and an optical power meter allow for convenient, on-site testing of fiber networks during construction and maintenance procedures



Part #	Description
6610	Visible Light Source
6615	Optical Power Meter
6620	Three Wavelength Light Source

Features

Three separate optical testing devices for use in the field help to ensure that fiber networks are functioning properly and loss budgets are met.

Fiberlink® Three Wavelength Light Source

- Laser output at wavelengths of 850, 1310 and 1550 nm
- Works with single mode and multimode fiber
- Output via ST connectors; jumper cables or ST/FC adaptors may be used
- Rechargeable battery provides up to four hours of operating power

Fiberlink® Optical Power Meter

- Measures the strength of optical signals at 850, 980, 1310 and 1550 nm wavelengths
- Gain and loss are accurately measured from -50 to +10 dBm
- 0.01 resolution

Fiberlink® Optical Power Meter (continued)

- Three AAA batteries provide up to 360 hours of operating power
- Works with single mode or multimode fiber; ST, FC or SC connectors

Fiberlink® Visible Light Source

- Visible 650 nm laser output
- Works with single mode and multimode fiber
- Output via FC connectors; jumper cables, ST or SC adaptors may be used
- Two AA batteries provide up to 30 hours of operating power
- Ideal for identifying fiber breaks and individual fibers within fiber bundles

Ordering Information

Part Number	Description
6610	Visible Light Source
6615	Optical Power Meter
6620	Three Wavelength Light Source

Sales

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Visible Light Source Specifications*:

Output Power	1 mW
Operating Wavelength	650 nm
Fiber Types Supported	Multimode and single mode
Optical Connector	Universal, supports all types of ferrules
Operating Modes	Continuous or pulsing (2 Hz rate)
Power	2 x AA batteries, included
Battery Life	Approx. 30 hours using alkaline batteries
Operating Temperature	-10°C to +40°C
Dimensions	3.95" x 2" x 1" (100 x 50 x 35 mm)
Weight	2 oz. (50 grams)

Optical Power Meter Specifications:

Wavelength Supported	850, 980, 1310, 1550 nm, switch selectable
Optical Connector	Universal adaptor supports all ferrules
Power Measurement Range	-50 to +10 dBm
Accuracy	+/- 2.5%
Display Resolution	0.01
Readout	dBm or mW, switch selectable
Power	3 x AAA batteries, included
Battery Life	Approximately 360 hours using alkaline batteries; Audio Off after 10 minutes
Operating Temperature	-10°C to +60°C
Dimensions	3.6" x 2.6" x 0.65" (90 x 55 x 16mm)
Weight	3 oz. (80 grams)

Three Wavelength Light Source Specifications*:

Operating Wavelengths	850, 1310, 1550 nm
Emitter Types	850 - VCSEL, 1310/1550 - Laser
Output Power (dBm), +/- 20%	850 nm: -3 dBm; 1310 nm: -7 dBm; 1550 nm: -7 dBm
Fiber Types Supported	850 nm: multimode; 1310 nm & 1550 nm: multimode & single mode
Optical Connector	ST, FC, SC adapters
Power	8.4v rechargeable NiMH battery included Universal input AC charger included. 9 volt battery may be used but is not rechargeable
Battery Operating Time	Approximately 4 hours
Battery Recharge Time	Approximately 12 hours
Operating Temperature	-10°C to +40°C
Dimensions	6" x 3" x 1" (150 x 76 x 26mm)
Weight	6.7 oz. (180 grams)

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Optical Testing Devices

** Class I Laser Product complies with FDA performance standard for laser products, Title 21, Code of Federal Regulations, Sub-Chapter J*

Want to learn more about fiber?

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3 YEAR LIMITED WARRANTY

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Sales

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Made in the USA

Rackmounts

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

6000A Rackmountable Card Cage

3 RU high enclosure with 20 positions for any combination of Fiberlink card modules. Power supply and alarm sensing module available.

Ordering Information

Part Number	Description	Number of Positions
6000A	Rackmountable Card Cage	20
6010A-pp	85 Watt Universal Switching Power Supply	3
6012A-pp	150 Watt Universal Switching Power Supply	3
6020A	Alarm Sensing Module	1
6031	Single Filler Panel	1
6032	Double Filler Panel	2
6034	Quadruple Filler Panel	4

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Features

Rackmountable 19" card cage offers 20 positions for any combination of Fiberlink transmitter, receiver and transceiver card modules. (Please refer to the Fiberlink® products' data sheet for slot and power requirements)

Cage may be powered with optional 3-position plug-in power supply or with an external, customer-provided power source

Two power supplies may be used to provide redundant power

Optical signal input and output connectors on each card module are at the rear of the card cage

Optional alarm module indicates fault condition via an audible piezo sounder, blinking red LED and activation of isolated contacts for use with remote monitoring

Single and multiple position blank filler panels are available to conceal positions not in use

ROHS Compliant

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Videoconferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

Sales

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Card Cage Specifications:

Total Number of Positions	20
Finish	Clear, irridited aluminum
Physical Size	19 W x 5.25 H x 11 D (inches) 483 W x 133 H x 280 D (mm)
Operating Temperature Range	-35° C to +75° C
Optional External Power Input*	8.7 to 12 VDC
Max. Allowable External Current*	11 amperes
External Power Input Connector	3 position terminal block

*The external power input connector is reverse-polarity protected but should be current limited and/or fused so that input current cannot exceed a maxium of 11 amperes

6010A Universal Switching Power Supply Specifications:

Total Number of Positions	3
Input Voltage Range (continuous)	90 to 260 volts AC 47 to 63 Hz @ 2A max.
Output Power	8.0 volts DC +/-5% regulated @ 11 A max.
Output Protection	Overvoltage; crowbar, short circuit; current limiting
Input Protection	A/C Fuse for catastrophic failure
Ripple and Noise	1% p-p, DC to 20 MHz
Operating Temperature Range	-20° C to +70° C; Derate linearly from 100% load at 50° C to 50% load at 70° C
Input Power Connector	IEC 320
Efficiency	85%
MTBF	100,000 Hours

6012A Universal Switching Power Supply Specifications:

Total Number of Positions	3
Input Voltage Range (continuous)	90 to 260 volts AC 47 to 63 Hz @ 2A max.
Output Power	15 volts DC +/-5% regulated @ 10 A max.
Output Protection	Overvoltage; crowbar, short circuit; current limiting
Input Protection	A/C Fuse for catastrophic failure
Ripple and Noise	1% p-p, DC to 20 MHz
Operating Temperature Range	-20° C to +70° C; Derate linearly from 100% load at 50° C to 50% load at 70° C
Input Power Connector	IEC 320
Efficiency	88%
MTBF	100,000 Hours

Alarm Sensing Module Specifications:

Total Number of Positions	1
Alarm Indications*	Blinking red LED, pulsing piezo sounder, external SPDT contact closures
External Contact Ratings	115/230 VAC 50/60 Hz 5 amperes resistive

* Note that the audible piezo sounder can be turned off via a front panel switch. The blinking red alarm LED and the activated external contacts cannot be deactivated until the fault condition is corrected.

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6000A Card Cage

GSA Schedule
Contract GS-03F-5063C

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Made in the USA

Copperlink™ 3G/HD/SD-SDI Distribution

COPPERLINK™

3G/HD/SD-SDI Distribution Amplifers

Broadcast quality 3G/HD/SD-SDI signal distribution with full SMPTE compliance, equalization and reclocking.

Not all SDI distribution amplifiers are created equal…

All ouputs are independently buffered and non-inverting for proper DVB-ASI support

Supports pathological patterns over the entire operating temperature range

Supports SMPTE 3G/HD-SD-SDI and DVB-ASI signals to 2.97 Gbps

Automatic equalization and reclocking of input signal

Compliant with SMPTE 259M, 292, 424M-2006, 305M, 310M, 344M and DVB-ASI

Low cost 2 and 4 output versions available

Embedded audio and data is passed through

3 Gbps rated BNC connectors

Low, 1.8 watt power consumption

Unique mounting flanges for easy installation

Wide range, low power AC/DC input from 9-24 volts

ESD protected input and outputs to 15 kV

Wide operating temperature range of -30° C to +70° C

Ordering Information

Part Number	Description	Outputs
2302-BOX	2 Channel Distribution Amplifier	2
2304-BOX	4 Channel Distribution Amplifier	4
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Sales

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Copperlink 2302/2304 Specifications

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	19.4 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 424M-2006, 305M, 310M, 344M, DVB-ASI
Re-clocked Data Rates	270 Mbps (SMPTE 259M, DVB-ASI-270), 1.485 Gbps (SMPTE 292) 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 120m of Belden 1694A at 2.97 Gbps, 175m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

Serial Video BNC Outputs

Number of Outputs	Model 2302: 2 Model 2304: 4
Signal Level	800mV ± 10%
DC Offset	0V ± 0.1V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

General Specifications

Indicators	Power, Data Rate Lock (3G, HD, SD/DVB-ASI) Alarm (Card version only)
Dimensions	5.21 x 3.50 x 1.15 (in) 133 x 89 x 30 (mm)
Weight	7.9 ounces, 210 grams
Number of slots in card cage	Model 2302: 1 Model 2304: 2
Power	9-24 volts, AC or DC 6.14 BTU/Hr 1.8 watts
Operating Temperature	-30° C to +70° C
MTBF	250,000 Hours

COPPERLINK™

3G/HD/SD-SDI Distribution Amplifiers Models 2302 & 2304

GSA Schedule Contract GS-03F-5063C

3 YEAR LIMITED WARRANTY

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Sales

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Made in the USA

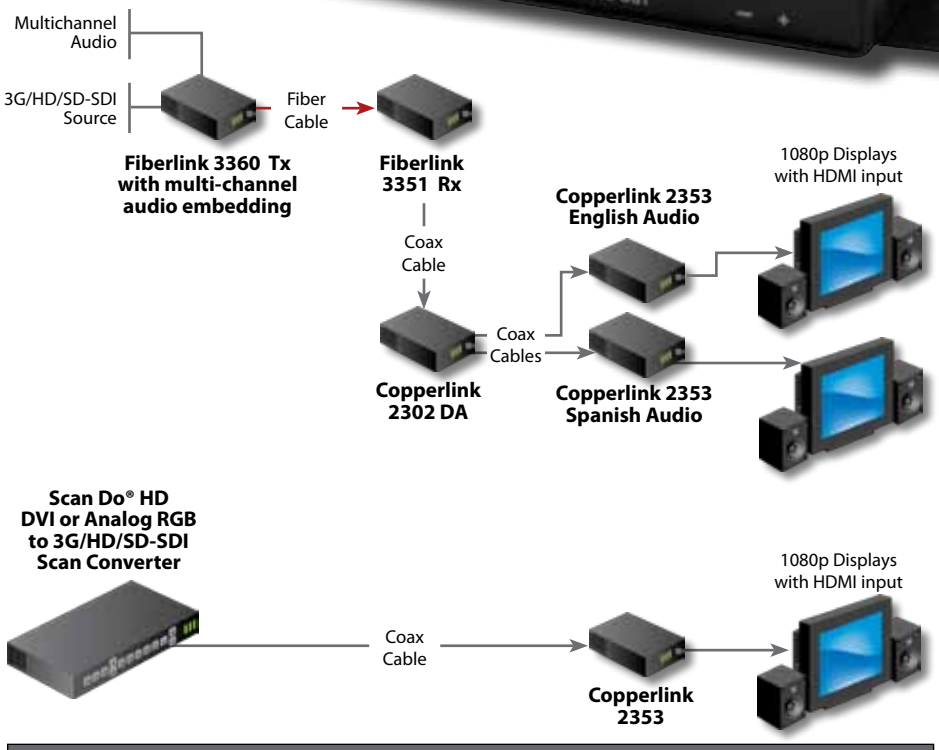
2353 3G/HD/SD-SDI to HDMI Converter with SDI Output

Broadcast quality 3G/HD/SD-SDI Transmission over coax with full SMPTE compliance to HDMI & 3G/HD/SD-SDI baseband output.

Ideal Applications:

Confidence monitoring, broadcast or corporate studios, OB trucks, digital signage, rental and staging, auditoriums, stadiums and theaters, large venue projector installations, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Signal	Channels	Direction
3G/HD/SD-SDI (Copper) to HDMI & Stereo Audio & 3G/HD/SD-SDI (Copper)	1	→



Features

- Convert 3G/HD/SD-SDI with embedded audio to HDMI with audio pair selection
- Supports all SD and HD resolutions to 1080p/60
- HDMI embedded and stereo line level outputs (if audio present in SDI stream)
- Re-clocked SDI BNC output allows for continuous 3G/HD/SD-SDI signal distribution
- User selection from up to 8 audio channel pairs for multilingual or multimessage support
- Automatic selection of output resolution - no scaling
- Small compact design
- All Copperlink 3G/HD/SD-SDI products support pathological signals over the operating temperature range.

Ordering Information

Part Number	Description
2353-BOX	3G/HD/SD-SDI to HDMI/SDI Converter
PDPS-1-pp	Power Supply

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

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Copperlink 2353 Receiver Specifications

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	270 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 424M-2006
Re-clocked Data Rates	270 Mbps (SMPTE 259M, DVB-ASI-270), 1.485 Gbps (SMPTE 292) 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 100m of Belden 1694A at 2.97 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

Video Output

Number of Outputs	1
Connector Type	HDMI Female
Signal Format	Single link HDMI with embedded audio, RGB or YCrCb as negotiated with display
Resolutions Supported	SD: 483i/59.94, 576i/50 ED: 480p/59.94/60, 576p/50 HD: 720p/50/59.94/60 1080i/50/59.94/60 1080p/23.98/24/25/29.97/30 1080p/23.98PsF/24PsF/25PsF/29.97PsF/30PsF 3G: 1080p/50/59.94/60
3G/HD/SD-SDI Output	Standard, Follows SDI input
HDCP Compatibility	Yes. SDI signals, by definition, are not encrypted.

Note: *Resolutions actually displayed on the HDMI monitor connected to the HDMI output will depend on the specific resolutions and refresh rates supported by that particular monitor.*

Audio Output

Number of Audio Channels	2 channels, unbalanced, line level 2 channels embedded in HDMI signal
Audio Connector	RCA Jacks
Switches	Front panel selection of one of 8 audio channel pairs on SDI signal to output

NOTE: Audio on HDMI and line level are available simultaneoulsy and extracted from audio embedded within SDI signal in accordance with SMPTE standards.

3G/HD/SD-SDI Output

Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps
Compliance	SMPTE 259M, 292, 424M-2006

COPPERLINK

2353 3G/HD/SD-SDI to HDMI Converter with SDI Output

GSA Schedule Contract GS-03F-5063C

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

General Specifications

Indicators:
Power, Alarm, Data Rate Lock (3G, HD, SD)

Box Version Dimensions:
6.5 W x 1.15 H x 6 L (inches)
165 W x 29 H x 152 L (mm)

Weight:
16 ounces, 453.5 grams

Power:
9-24 volts, AC or DC, 6 watts, 20.5 BTU/Hr

Operating Temperature:
-10° C to +50° C

MTBF:
37,000 Hours

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

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Scan Converters

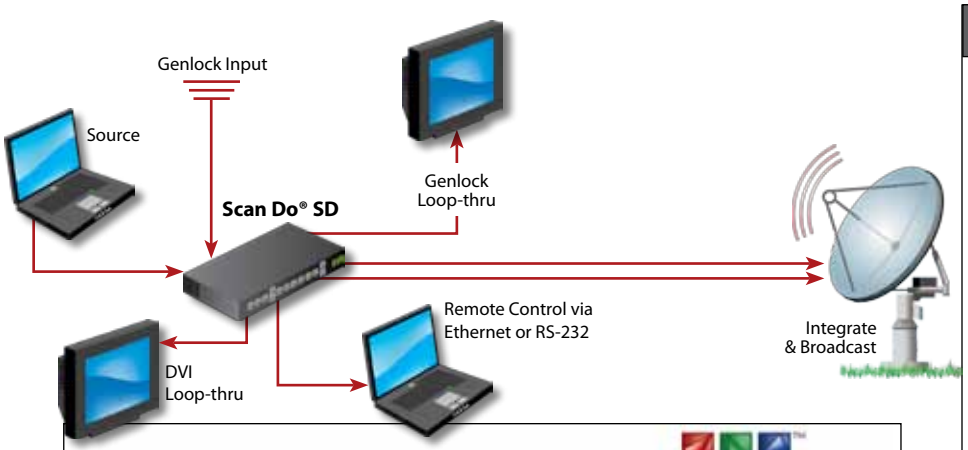
Scan Do SD

DVI-I to SD-SDI Scan Converter with DVI or Analog RGB inputs.

NEW!

Convert your high-resolution DVI or Analog RGB computer sources into a SMPTE standard SD-SDI signal for broadcasting on air or integrating into a professional video production system.

Signals In	Signals Out
DVI Input or Analog RGB Up to 1920x1200	SD-SDI Copper NTSC, PAL



Standard Features

- Digital DVI & Analog RGB Input Support
- Supports SD-SDI output resolutions per SMPTE 259.
- Advanced scaling algorithms and 10 bit processing provide exceptionally clean and accurate broadcast quality output.
- Genlock with full phasing control locks SD-SDI output to black burst.
- RS-232 ports enable remote control of the Scan Do SD.
- Two coaxial outputs (SMPTE 259)
- Zoom & Shrink horizontally and vertically while maintaining the aspect ratio or set each independently!
- Precisely position your image horizontally and vertically.
- Capture & Store EDID
- Store & Recall Presets from the Front Panel with Preset Status LEDs
- On Screen Display & Keypanel Lock Status LEDs
- Alternate Function Button

Control your Scan Do® SD from anywhere in the world!

With onboard Ethernet and RS-232, the Scan Do SD allows you to control resolution, zoom, pan, anti-flicker reduction, test patterns and more!

Input Resolutions

DVI-I single link resolutions:

Up to 1920x1200 @ 60 Hz

Pixel Clock Frequency 25 to 165 MHz *(Input Pixel Clock Frequency cannot exceed 165 MHz)*

Output Resolutions

10-bit SD-SDI per SMPTE 259:

525/59.9/I (NTSC) 625/50/I (PAL)

Input/Output

Single link DVI-I with active loop-thru support;
includes 15 pin adapter for Analog RGBHV support

Two coaxial outputs; SMPTE 259M-C

Only one output format is available on all outputs at one time.

Video Processing

10 bit, all digital

Genlock

NTSC/PAL black burst

Coarse & fine phasing with a range of one output vertical period

Image Size & Positioning

Separate H & V positioning

Zoom and Shrink; H & V or together

Control Interfaces

RS-232 & 10/100 Base-T ethernet LAN port with internal HTML host

Front panel push button

Field upgradeable via Ethernet

Additional Features

- Variable flicker reduction
- On Screen Display (OSD) & LED
- Factory defaults reset
- Rack mount kit included
- RoHS compliant
- Test pattern generator: color bars at 100% and 75% Saturation
- Multiple preset storage and recall settings through remote control interfaces or front panel

General Specifications

Dimensions	16.75 W x 1.75 H x 10 D (inches) 425 W x 44 H x 254 D (mm) (without rackmount ears)
Weight	5.5 pounds; 2.49 kg
Power	Internal universal input AC power supply; 95 - 250 volts AC, 47 - 63 Hz, 20 watts
BTUs per Hour	68.24
MTBF	15,200 Hours
Operating Temperature	-10ºC to +50ºC
Operating Humidity	0 - 95% , non-condensing

Scan Do SD

DVI or Analog RGB Computer Video to SD-SDI Scan Converter

GSA Schedule Contract GS-03F-5063C

Ordering Information

Part Number	Description
1295-pp	Scan Do® SD

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia
JP - Japan	UK - United Kingdom
EU - Europe	

Need 1080p?

Log on to scandohd.tv and learn about the Scan Do® HD DVI-I to 3G/HD/SD-SDI Scan Converter today!

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor.
See website for terms and conditions.

Sales

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Made in the USA

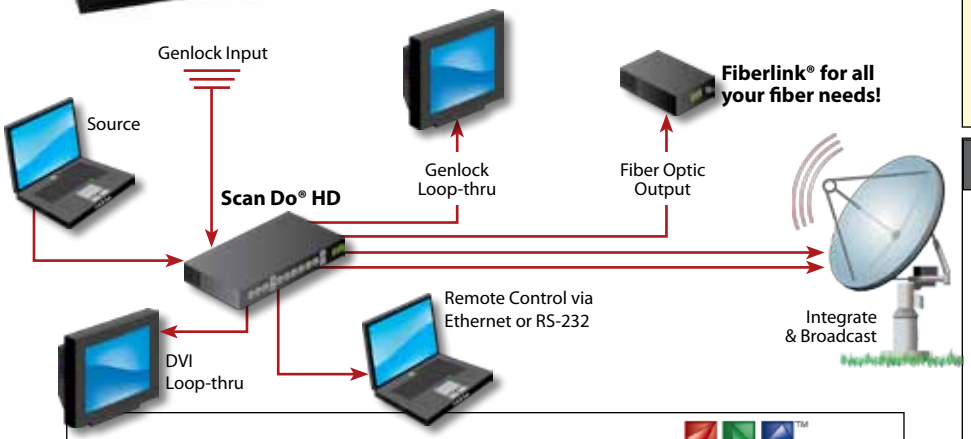
Scan Do® HD

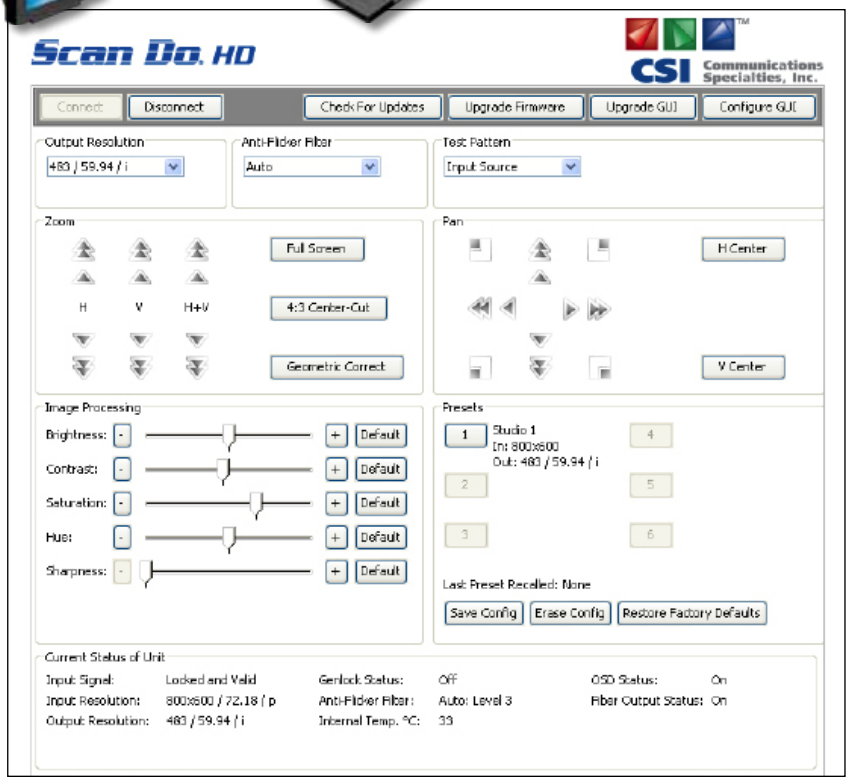
DVI-I to 3G/HD/SD-SDI Scan Converter now with DVI or Analog RGB inputs and 3G-SDI Output Support.

NEW!

Convert your high-resolution DVI or Analog RGB computer sources into a SMPTE standard 3G, HD or SD SDI signal for broadcasting on air or integrating into a professional video production system.

Signals In	Signals Out
DVI Input or Analog RGB Up to 1920x1200	3G/HD/SD-SDI Copper & Fiber Up to 1080p





New Features at a glance:

- Digital DVI & Analog RGB Input Support
- 3G Output Support (SMPTE 424M-2006)
- Store & Recall Presets from the Front Panel with Preset Status LEDs
- Psf Output Support
- Capture & Store EDID
- SMPTE 297-2006 Compliant Fiber Optic Output
- Fiber Optic, On Screen Display & Keypanel Lock Status LEDs
- Alternate Function Button

Standard Features

Supports 3G SDI resolutions up to 1080p per SMPTE 424M-2006, HD SDI resolutions up to 1080i per SMPTE 292 and SD SDI resolutions per SMPTE 259.

Advanced scaling algorithms and 10 bit processing provide exceptionally clean and accurate broadcast quality output.

Genlock with full phasing control locks 3G/HD/SD-SDI output to tri-level sync or black burst.

Ethernet & RS-232 ports enable remote control of the HD.

Includes fiber optic output (SMPTE 297-2006) and two coaxial outputs (SMPTE 424M-2006, 292 and 259).

Complete set of Image processing controls and built-in variable flicker reduction.

Zoom & Shrink horizontally and vertically while maintaining the aspect ratio or set each independently!

Precisely position your image horizontally and vertically.

Control your Scan Do® HD from anywhere in the world!

With onboard Ethernet and RS-232, the Scan Do HD allows you to control resolution, zoom, pan, image processing controls, anti-flicker reduction, test patterns and more!

Input Resolutions

DVI-I single link resolutions:

Up to 1920x1200 @ 60 Hz

Pixel Clock Frequency 25 to 165 MHz
(Input Pixel Clock Frequency cannot exceed 165 MHz)

Output Resolutions

10-bit 3G-SDI per SMPTE 424M-2006:

1080/60/P	1080/59.94/P
1080/50/P	

10-bit HD-SDI per SMPTE 292:

720/60/P	720/59.94/P
720/50/P	720/30/P
720/29.97/P	720/25/P
720/24/P	720/23.98/P
1035/60/I	1035/59.94/I
1080/60/I	1080/59.94/I
1080/50/I	1080/30/P
1080/30/PsF	1080/29.97/P
1080/29.97/PsF	1080/25/P
1080/25/PsF	1080/24/P
1080/24/PsF	1080/23.98/P
1080/23.98/PsF	

10-bit SD-SDI per SMPTE 259:

525/59.9/I (NTSC)	625/50/I (PAL)

Input/Output

Single link DVI-I with active loop-thru support; includes 15pin adapter for Analog RGBHV support

Two coaxial outputs; SMPTE 292M, 259M-C & 424M-2006 Level A

One optical output; SMPTE 297-2006 compliant, 1310 nm, single mode or multimode fiber, LC connector, -3.5 dBm nominal output power

Only one output format is available on all outputs at one time.

Processing Controls

Brightness	Contrast
Hue	Color Saturation
Sharpness	

Video Processing

10 bit, all digital

Genlock

NTSC/PAL black burst or HD tri-level sync

3G/HD resolutions will genlock to NTSC/PAL black burst at the same vertical rate

H, V and Clock phasing with a range of one output vertical period and resolution of 840 ps

Image Size & Positioning

Separate H & V positioning

Zoom and Shrink; H & V or together

Control Interfaces

RS-232 & 10/100 Base-T ethernet LAN port with internal HTML host

Front panel push button

Field upgradeable via Ethernet

Additional Features

Variable flicker reduction

Test pattern generator: color bars at 100% and 75% Saturation

Multiple preset storage and recall settings through remote control interfaces or front panel

On Screen Display (OSD) & LED

Factory defaults reset

Rack mount kit included

RoHS compliant

General Specifications

Dimensions	16.75 W x 1.75 H x 10 D (inches) 425 W x 44 H x 254 D (mm) (without rackmount ears)
Weight	5.5 pounds; 2.49 kg
Power	Internal universal input AC power supply 95 - 250 volts AC, 47 - 63 Hz, 20 watts
BTUs/Hour	68.24
MTBF	15,200 Hours
Operating Temperature	-10ºC - 50ºC
Operating Humidity	0-95% non-condensing

Scan Do HD

DVI or Analog RGB Computer Video to 3G/HD/SD-SDI Scan Converter

GSA Schedule Contract GS-03F-5063C

The Scan Do HD works brilliantly with our Fiberlink 3350 3G/HD/SDI Series

Ordering Information

Part Number	Description
1298-pp	Scan Do® HD

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia
JP - Japan	UK - United Kingdom
EU - Europe	

Want to learn more about the power of fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Sales

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info@commspecial.com

UPDATED 12/13/2010

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Made in the USA

Video Scalers

Deuce®

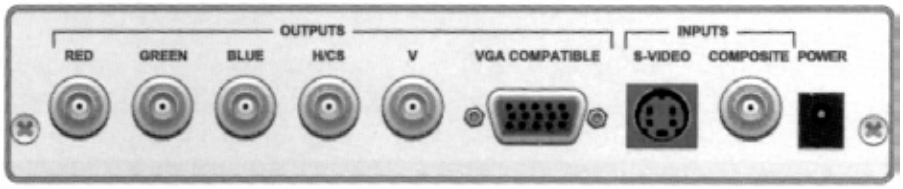
Intelligent Video Scaler

Deuce®

The "original" affordable video scaler creates high resolution, film-quality images from standard video sources

Ideal Applications:

Presentation, Control Room, Theaters, Stadiums, Museums



Back Panel Drawing of Deuce

Signal Capability

Signals In

NTSC, PAL, SECAM, Composite, S-Video

Signals Out

RGBHV, RGBS, RGsB:
640x480, 800x600, 1024x768,
852x480 (16:9), 832x624, 1280x1024

Features

Intelligent video scaling to six output resolutions

Selectable output vertical refresh rates of 60 Hz and 75 Hz (60 Hz only at 1280 x 1024), allowing for brightest, flicker-free image

Advanced motion compensation when de-interlacing input video eliminates unwanted artifacts

Supports 16:9 displays, "letterbox" widescreen videotapes and DVD sources

Switchable composite and S-Video inputs in NTSC, PAL and SECAM standards

Two simultaneous outputs:
- VGA compatible on HD-15 connector
- RGBHV, RGBS or RGsB on BNC connectors

Processing controls for contrast, brightness, color saturation and hue

Horizontal and vertical positioning

Non-volatile memory remembers all settings

Lockout function of front panel controls

Universal input power supply

Ordering Information

Part Number	Description
2200-pp	Deuce
1119-006	6-ft. VGA extension cable
1119-025	25-ft. VGA extension cable
1119-50	50-ft. VGA extension cable
1119-100	100-ft. VGA extension cable
1143-012	12-ft. 5 x BNC to 5 x BNC
1143-025	25-ft. 5 x BNC to 5 x BNC
1143-050	50-ft. 5 x BNC to 5 x BNC
1143-100	100-ft. 5 x BNC to 5 x BNC
1206	6-ft. HD-15M to 5 x BNC cable
1207	6-ft. HD-15F to 5 x BNC cable

NOTE: Deuce is available with international line cords. Please specify when ordering.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Sales

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Input/Output:

Input Video Standards: NTSC, NTSC-Japan, PAL (B,D, G, H, I, M, N, N-3.58), SECAM

Input Types: Composite and S-Video (Y/C), both terminating in 75 Ohms

Input Connectors: Composite: BNC-F; S-Video: 4-pin mini-DIN-F

Input Formats: Normal (4:3), Letterbox (16:9)

Input Decoding: 8-bit Y, 8-bit C, and 16-bit YUV with comb filter processing

Output Types: HD-15F connector with standard VGA pin-out; 5 x BNC connectors which can be configured as RGBHV, RGBS or RGsB

Output Resolutions:

640 x 480	852 x 480 (16:9)
800 x 600	832 x 624
1024 x 768	1280 x 1024

Output Refresh Rates: 60 Hz, 75 Hz (selectable), not input locked

Equipment Included:

Deuce Intelligent Video Scaler

External universal input power supply

AC line cord

S-Video input cable

Composite video input cable with BNC/RCA adaptor

User manual

Power:

Separate universal input AC power supply.

Input: 95 volts AC to 250 volts AC, 47 to 63 Hz

Output: 5 volts DC at 3 A

UL/CSA/TUV/CE approved

Maximum specified power: 10 Watts

Dimensions:

7.25 W x 1.5 H x 8 D (inches)

184 W x 38 H x 203 D (mm)

Weight: Approx. 3 lbs, with power supply; 1.4 kg

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Video Conferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

Also from CSI: Fiberlink® and Scan Do® Scan Converters.

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Intelligent Video Scaler

GSA Schedule Contract GS-03F-5063C

You can learn more about fiber optic transmission, scan conversion, video scaling and more online at commspecial.com

3 YEAR LIMITED WARRANTY

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See website for terms and conditions.

Sales

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UPDATED 2/6/2009

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Made in the USA

Deuce® MC

Video scaler, line doubler and line quadrupler with user-controlled, six-setting motion compensation feature

Ideal Applications:

Presentation, Education, Museums, Control Rooms

Back Panel Drawing of Deuce MC

Signal Capability

Signals In

NTSC, PAL, Composite, S-Video, Y-Cb-Cr

Signals Out

RGBHV, RGBS, Y-Cb-Cr

800x600, 852x480 (16:9), 1024x768, line double, line quadruple

Features

Intelligent video scaling to three resolutions, plus line doubling and line quadrupling

Output vertical refresh rate locked to input vertical refresh rate (59.94 Hz NTSC; 50 Hz PAL)

Six user-selectable motion compensation settings using three different algorithms, applied individually or in combination
- -Static mesh (images with little or no motion)
- -Vertical temporal (standard video)
- -Adaptive frame (inverse 3:2 pulldown, for video originating from a film source)

Supports 16:9 "letterbox" videotape and DVD sources

Switchable composite, S-Video and Y-Cb-Cr component inputs in NTSC and PAL standards

VGA-compatible HD-15 connector provides RGBHV, RGBS or Y-Cb-Cr progressive scan output formats

RS-232 remote port for use with a media controller

Non-volatile memory stores all settings

Lockout function on front panel controls

Universal input power supply incorporated in chassis; no external power supply module

Ordering Information

Part Number	Description
2220-pp	Deuce MC
1119-006	6-ft. VGA extension cable
1119-025	25-ft. VGA extension cable
1119-50	50-ft. VGA extension cable
1119-100	100-ft. VGA extension cable
1206	6-ft. HD-15M to 5 x BNC cable
1210	12-ft. 3 x RCA Phono cable
1240	Rackmount for one 2220 unit
1241	Rackmount for two 2220 units

NOTE: Deuce MC is available with international line cords. Please specify when ordering.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Sales

CSI Communications Specialties, Inc.

631-273-0404 | commspecial.com
info@commspecial.com

Input/Output:

Input Video Standards: NTSC, PAL (B, G, H, I)

Input Types: Composite, S-Video (Y/C) and component Y-Cb-Cr, all terminating in 75 Ohms

Input Connectors: Composite: RCA-F; S-Video: 4-pin mini-DIN-F; Component: 3 RCA-F

Input Decoding: 16-bit YUV with adaptive 4H comb filter processing

Output Types: HD-15F connector with standard VGA pin-out which can be configured as RGBHV, RGBS or Y-Cb-Cr, selectable through rear panel switch

Output Refresh Rates: (locked to input)
59.94 Hz (NTSC input) 50 Hz (PAL input)

Output Resolutions:
800 x 600, 852 x 480 (16:9), 1024 x 768, line double, line quadruple

Six user-selectable motion compensation settings using three different algorithms, applied individually or in combination

Static mesh (images with no motion)
Vertical temporal (standard video)
Adaptive frame
(inverse 3:2 pulldown, for video originating from a film source)

Remote Control: RS-232 on 3-pin "Phoenix" type connector

Equipment Included:

Deuce MC Intelligent Video Scaler

AC line cord

S-Video input cable

Composite video input cable with RCA male to RCA male

User Manual

Power:

Internal universal input AC power supply

Input: 85-265 volts AC, 47-63 Hz

UL/CSA/TUV/CE approved

Maximum specified power: 7 Watts

Dimensions:

7.25 W x 1.5 H x 8 D (inches)

184 W x 38 H x 203 D (mm)

Weight: Approx. 2 lbs; .91 kg

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Video Conferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

Also from CSI: Fiberlink® and Scan Do® Scan Converters.

Deuce®
Intelligent Video Scaler

GSA Schedule Contract GS-03F-5063C

You can learn more about fiber optic transmission, scan conversion, video scaling and more online at commspecial.com

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Made in the USA

Deuce® HD

Video scaling and processing from standard TV video to five non-interlaced HDTV and DTV resolutions

Ideal Applications:

Presentation, Home Theater, Broadcast

Back Panel Drawing of Deuce HD

Signal Capability

Signals In

NTSC, PAL, Composite, S-Video, Y-Cb-Cr

Signals Out

RGBHV, RGBS, Y-Cb-Cr,

480p, 720p, 1080p, 1280x1024, 1366x768

Features

Intelligent video scaling to five HDTV and DTV resolutions

Output vertical refresh rate locked to input vertical refresh rate (59.94 Hz NTSC; 50 Hz PAL)

Three aspect ratio conversions from input to output:
-4:3 to Full Screen (4:3 or 16:9)
-4:3 to 4:3 in 16:9 screen
-16:9 to 16:9 (letterbox to full 16:9 screen)

Auto detects and applies best motion compensation algorithm, including inverse 3:2 pulldown (Adaptive Frame Mode)

Supports 16:9 "letterbox" videotape and DVD sources

Switchable composite, S-Video and Y-Cb-Cr, component inputs in NTSC and PAL standards

VGA-compatible HD-15 connector provides RGBHV, RGBS or Y-Cb-Cr progressive scan output formats

RS-232 remote port for use with a media controller

Non-volatile memory remembers all settings

Lockout function on front panel controls

Universal input power supply incorporated in chassis; no external power supply module

Ordering Information

Part Number	Description
2230-pp	Deuce HD
1119-006	6-ft. VGA extension cable
1119-025	25-ft. VGA extension cable
1119-50	50-ft. VGA extension cable
1119-100	100-ft. VGA extension cable
1206	6-ft. HD-15M to 5 x BNC cable
1210	12-ft. 3 x RCA Phono cable
1240	Rackmount for one 2230 unit
1241	Rackmount for two 2230 units

NOTE: Deuce HD is available with international line cords. Please specify when ordering.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Sales

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info@commspecial.com

Input/Output:

Input Video Standards: NTSC, PAL (B, G, H, I)

Input Types: Composite, S-Video (Y/C) and component Y-Cb-Cr, all terminating in 75 Ohms

Input Connectors: Composite: RCA-F; S-Video: 4-pin mini-DIN-F; Component: 3 RCA-F

Input Decoding: 16-bit YUV with adaptive 4H comb filter processing

Output Types: HD-15F connector with standard VGA pin-out which can be configured as RGBHV, RGBS or Y-Cb-Cr, selectable through rear panel switch

Output Refresh Rates: (locked to input)
59.94 Hz (NTSC input) 50 Hz (PAL input)

Output Resolutions:
480p, 720p, 1080p, 1280 x 1024, 1366 x 768

Aspect Ratio Conversion:
4:3 to full screen (either 4:3 or 16:9)
4:3 to 4:3 in 16:9 screen
16:9 to 16:9 (letterbox to full screen)

Auto detect and apply motion compensation, selecting from three algorithms
Static mesh (images with no motion)
Vertical temporal (standard video)
Adaptive frame (inverse 3:2 pulldown, for video originating from a film source)

Remote Control: RS-232 on 3-pin "Phoenix" type connector

Equipment Included:

Deuce HD Intelligent Video Scaler

AC line cord

S-Video input cable

Composite video input cable with RCA male to RCA male

User Manua

Power:

Internal universal input AC power supply

Input: 85-265 volts AC, 47-63 Hz

UL/CSA/TUV/CE approved

Maximum specified power: 7 Watts

Dimensions:

7.25 W x 1.5 H x 8 D (inches)

184 W x 38 H x 203 D (mm)

Weight: Approx. 2 lbs; .91 kg

Deuce®
Intelligent Video Scaler

GSA Schedule Contract GS-03F-5063C

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Made in the USA

Deuce® SDQ

Versatile scaler, line doubler and line quadrupler offers quality performance at a very affordable price

Ideal Applications:

Presentation, Education, Museums

Back Panel Drawing of Deuce SDQ

Signal Capability

Signals In

NTSC, PAL, Composite, S-Video, Y-Cb-Cr

Signals Out

RGBHV, RGBS, Y-Cb-Cr

800x600, 1024x768, 1280x1024, line double, line quadruple

Features

Intelligent video scaling to three resolutions, plus line doubling and line quadrupling

Output vertical refresh rate locked to input vertical refresh rate (59.94 Hz NTSC; 50 Hz PAL)

Auto detects and applies best motion compensation algorithm, including inverse 3:2 pulldown (Adaptive Frame Mode)

Supports 16:9 "letterbox" videotape and DVD sources

Switchable composite, S-Video and Y-Cb-Cr component inputs in NTSC and PAL standards

VGA-compatible HD-15 connector provides RGBHV, RGBS or Y-Cb-Cr progressive scan output formats

RS-232 remote port for use with a media controller

Non-volatile memory remembers all settings

Lockout function on front panel controls

Universal input power supply incorporated in chassis

Ordering Information

Part Number	Description
2240-pp	Deuce SDQ
1119-006	6-ft. VGA extension cable
1119-025	25-ft. VGA extension cable
1119-50	50-ft. VGA extension cable
1119-100	100-ft. VGA extension cable
1206	6-ft. HD-15M to 5 x BNC cable
1210	12-ft. 3 x RCA Phono cable
1240	Rackmount for one 2240 unit
1241	Rackmount for two 2240 units

NOTE: Deuce SDQ is available with international line cords. Please specify when ordering.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
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EU - Europe
JP - Japan
UK - United Kingdom

Sales

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Input/Output:

Input Video Standards: NTSC, PAL (B, G, H, I)

Input Types: Composite, S-Video (Y/C) and component YCbCr, all terminating in 75 Ohms

Input Connectors: Composite: RCA-F; S-Video: 4-pin mini-DIN-F; Component: 3 RCA-F

Input Decoding: 16-bit YUV with adaptive 4H comb filter processing

Output Types: HD-15F connector with standard VGA pin-out which can be configured as RGBHV, RGBS or YCbCr, selectable through rear panel switch

Output Refresh Rates: (locked to input)
59.94 Hz (NTSC input) 50 Hz (PAL input)

Output Resolutions:
800 x 600, 1024 x 768, 1280 x 1024, line double, line quadruple

Auto detect and apply motion compensation, selecting from three algorithms
Static mesh (images with little or no motion)
Vertical temporal (standard video)
Adaptive frame (inverse 3:2 pulldown, for video originating from a film source)

Remote Control: RS-232 on 3-pin "Phoenix" type connector

Equipment Included:

Deuce SDQ Intelligent Video Scaler

AC line cord

S-Video input cable

Composite video input cable with RCA male to RCA male

User Manual

Power:

Internal universal input AC power supply

Input: 85-265 volts AC, 47-63 Hz

UL/CSA/TUV/CE approved

Maximum specified power: 7 Watts

Dimensions:

7.25 W x 1.5 H x 8 D (inches)

184 W x 38 H x 203 D (mm)

Weight: Approx. 2 lbs; .91 kg

About CSI

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Also from CSI: Fiberlink® and Scan Do® Scan Converters.

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Made in the USA

Splitters & Switches

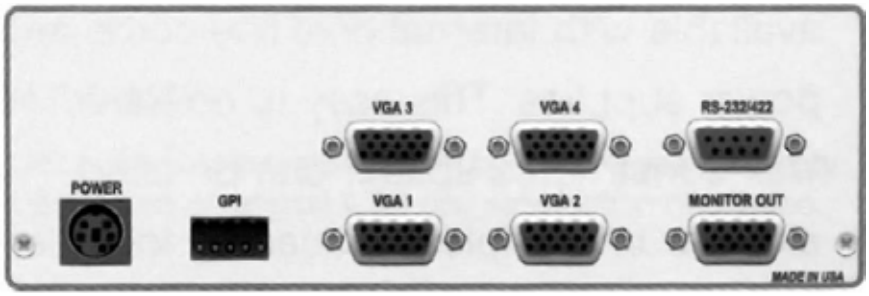
Quadswitch™ for VGA

High-performance 4x1 active switch with fully buffered inputs and output and advanced sync processing

Ideal Applications:

Presentation, Education, Contol Room, Court Room

Part#	Name	# Inputs
1340	Quadswitch™	4



Back Panel Drawing of QuadSwitch™ for VGA (1340)

Features

Switch one of four VGA computer sources to one output

Can drive any type of monitor, flat panel, projector or display that is VGA compatible

300 MHz bandwidth

Fully buffered inputs and output

All electronic switching; no relays

Sync outputs capable of driving 75 Ohm loads

Advanced sync processing, with the ability to support other types of RGB signals (such as sync-on-green) using adaptor cables

Easy-to-use front panel push buttons for selection of inputs

Two remote control options: RS-232/422 serial port and/or one-to-one contact closure to ground

Designed for easy rackmounting

Unit comes with UL/CSA/CE approved power supply. Input and output cables must be purchased separately

Ordering Information

Part Number	Description
1340-pp	QuadSwitch™ for VGA
1244	Single rackmount kit for one 1340 unit
1245	Double rackmount kit for two 1340 units
1119-006	6-ft. extention cable w/HD-15 M/F termination
1119-010	10-ft. extention cable w/HD-15 M/F termination
1119-025	25-ft. extention cable w/HD-15 M/F termination
1119-050	50-ft. extention cable w/HD-15 M/F termination
1119-100	100-ft. extention cable w/HD-15 M/F termination
1119	CAB-19 raw extension cable cut to custom length. Call for details.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Sales

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Input/Output:

Input Type: VGA compatible, RGBHV
(any RGB system may be used with appropriate adaptors)

Input Impedance: RGB - 75 Ohms H & V - high impedance

Input/Output Connectors: HD-15F

RGB Bandwidth: 300 MHz (-3 dB)

RS-232/422 Connector: DB-9F

Contact Closure Connector: 5-pin (mating connector provided)

Power connector is 5-pin mini-DIN-F

Equipment Included:

QuadSwitch for VGA unit

UL/CSA/CE approved power supply (230 Volts AC/50 Hz TUV/CE approved tabletop supply is also available)

User's manual

Dimensions:

QuadSwitch: 7.25 W x 2.5 H x 3.25 D (inches); 184 W x 64 H x 83 D (mm)

Weight: Approximately 3 lbs.; 1.4 kg

Power:

100 Volts AC to 240 Volts AC to 240 volts AC, 47-67 Hz, tabletop

UL/CSA/TUV/CE approved

GSA Schedule Contract GS-03F-5063C

You can learn more about fiber optic transmission, scan conversion, video scaling and more online at commspecial.com

3 YEAR LIMITED WARRANTY

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About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Video Conferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

Sales

CSI Communications Specialties, Inc.
631-273-0404 | commspecial.com
info@commspecial.com

UPDATED 2/6/2009

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Made in the USA

Splitters for VGA

Fully-buffered distribution amplifiers for VGA, available in five models offering two to ten outputs

Ideal Applications:

Digital Signage, Remote Monitoring, Corporate, Manufacturing, Inspection, Education, Control Room, Court Room

Part#	Name	# Outputs
1302	Twinsplit®	2
1304	Quadsplit®	4
1306	Hexisplit®	6
1308	Octosplit®	8
1310	Decisplit®	10

Back Panel Drawing of TwinSplit for VGA (1302)

Ordering Information

Part Number	Description
1302-pp	TwinSplit® for VGA
1304-pp	QuadSplit® for VGA
1306-pp	HexiSplit® for VGA
1308-pp	OctoSplit® for VGA
1310-pp	DeciSplit® for VGA
1240	Single rackmount kit for one1302 unit
1241	Double rackmount kit for two 1302 units
1244	Single rackmount kit for one 1304, 1306, 1308 or 1310 unit
1245	Double rackmount kit for two 1304, 1306, 1308 or 1310 units
1119-006	6-ft. extention cable w/HD-15 M/F termination
1119-010	10-ft. extention cable w/HD-15 M/F termination
1119-025	25-ft. extention cable w/HD-15 M/F termination
1119-050	50-ft. extention cable w/HD-15 M/F termination
1119-100	100-ft. extention cable w/HD-15 M/F termination
1119	CAB-19 raw extension cable cut to custom length. Call for details.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Features

Connect multiple VGA monitors to a single VGA source

Supports all VGA, SVGA, XGA, SXGA and UXGA resolutions up to 1600 x 1280

Operates at distances up to 250 feet

300 MHz bandwidth

Compatible with newer Apple video interfaces, including: iMAC, Power MAC G4 Cube, Power MAC G4, Macintosh Server G4, iBook and Titanium Powerbook G4

Compact, all metal casing

Input and output connectors located on rear

Designed for easy rackmounting

Unit comes with UL/CSA/CE approved power supply and one 6-ft. input cable. Output cables must be purchased separately

Sales

CSI Communications Specialties, Inc.

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Input/Output:

All input and output connectors are HD-15F

All sync outputs can drive either TTL loads or be terminated in 75 Ohms

RGB outputs drive standard 75 Ohm loads

Power connector is 5-pin mini-DIN-F

Monitor type switch is used to set the monitor ID bits for the VGA card

Equipment included:

VGA Splitter unit

UL/CSA/CE approved power supply 230 Volts AC/50 Hz TUV/CE approved (tabletop supply is also available)

6ft. HD-15M to HD-15 M input cable to connect from VGA output

User's manual

Dimensions:

TwinSplit: 7.25 W x 1.5 H x 3.25 D (inches); 184 W x 38 H x 83 D (mm)

QuadSplit: 7.25 W x 2.5 H x 3.25 D (inches); 184 W x 64 H x 83 D (mm)

HexiSplit: 7.25 W x 2.5 H x 3.25 D (inches); 184 W x 64 H x 83 D (mm)

OctoSplit: 7.25 W x 2.5 H x 3.25 D (inches); 184 W x 64 H x 83 D (mm)

DeciSplit: 7.25 W x 2.5 H x 3.25 D (inches); 184 W x 64 H x 83 D (mm)

Weight: TwinSplit: approx. 3 lbs. (1.4 kg.); All others: approx. 3.5 lbs. (1.6 kg)

Power

TwinSplit and QuadSplit: 120 Volts AC, 60 Hz wall plug-in power supply or 230 Volts AC, 50 Hz tabletop

HexiSplit, OctoSplit and DeciSplit: 100 Volts AC to 240 Volts AC, 47-63 Hz universal input tabletop supply

UL/CSA/TUV/CE approved

GSA Schedule Contract GS-03F-5063C

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Made in the USA

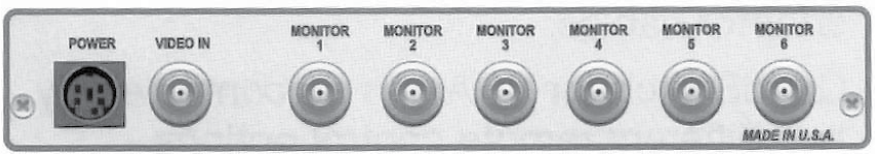
Splitter for Composite Video

Fully-buffered six output distribution amplifier
supports composite video signals in NTSC and PAL formats

Ideal Applications:

Professional Video, Remote Monitoring, Security, Education, Court Room, Control Room

Part#	Name	# Outputs
1706	Hexisplit®	6



Back Panel Drawing of HexiSplit® for Video (1706)

Features

Connect multiple video monitors to a single composite video source

Supports NTSC and PAL formats

Operates at distances up to 250 feet

300 MHz bandwidth

< 1 ns rise time

Compact, all metal casing

Input and output connectors located on rear

Designed for easy rackmounting

Unit comes with UL/CSA/CE approved power supply. Input and output cables must be purchased separately

Ordering Information

Part Number	Description
1706-pp	HexiSplit® for Video
1240	Single rackmount kit for one 1706 unit
1241	Double rackmount kit for two 1706 units
1159-006	6-ft. extention cable w/2 x BNC-M termination
1159-012	12-ft. extention cable w/2 x BNC-M termination
1159-025	25-ft. extention cable w/2 x BNC-M termination
1159-050	50-ft. extension cable w/2 x BNC-M termination
1159	CAB-59 raw extension cable cut to custom length. Call for details.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Sales

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Input/Output:

All input and output connectors are BNCs

Outputs drive standard 75 Ohm loads

Differential gain: <0.1%

Differential phase: <0.1 degree

Power conector is 5-pin mini-DIN-F

Equipment included:

Video Splitter unit

UL/CSA/CE approved power supply 230 Volts AC/50 Hz TUV/CE approved tabletop supply is also available)

User's manual

Dimensions:

HexiSplit: 7.25 W x 1.5 H x 3.25 D (inches); 184 W x 38 H x 83 D (mm)

Weight: Each unit weights approx. 3 lbs. with power supply (1.35 kg)

Power

120 Volts AC, 60 Hz wall plug-in power supply or 230 Volts AC, 50 Hz tabletop

UL/CSA/TUV/CE approved

GSA Schedule Contract GS-03F-5063C

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The **Fiberlink®** line offers an extensive and affordable family of fiber optic transmission systems for the Professional A/V marketplace and includes several ground-breaking products for the transmission of high-resolution RGB signals. Systems for point-to-point and point-to-multipoint signal distribution make these products highly desirable for any Pro A/V architecture. New products are constantly being designed and developed and you can get the latest information at commspecial.com

Our award-winning product line, the **Scan Do®** family of computer to video scan converters, has redefined industry standards in computer video to NTSC/PAL technology with unsurpassed performance in its price range. All models support high resolutions and refresh rates and are VGA and Mac® compatible. The feature-rich and versatile Scan Do family offers the widest range of scan converters on the market.

Also from CSI: Fiberlink®, Scan Do® Scan Converters & Deuce Video Scalers

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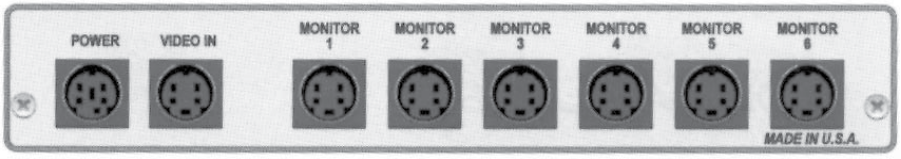
Splitters for S-Video

Fully-buffered two and six output distribution amplifiers support S-Video signals in NTSC and PAL formats

Ideal Applications:

Home Theatre, Presentation, Court Rooms, Medical

Part#	Name	# Outputs
1802	Twinsplit®	2
1806	Hexisplit®	6



Back Panel Drawing of HexiSplit® for S-Video (1806)

Features

- Connect multiple S-Video monitors to a single S-Video source
- Supports NTSC and PAL formats
- Operates at distances up to 250 feet
- 300 MHz bandwidth
- < 1 ns rise time
- Compact, all metal casing
- Input and output connectors located on rear
- Designed for easy rackmounting
- Unit comes with UL/CSA/CE approved power supply. Input and output cables must be purchased separately

Ordering Information

Part Number	Description
1802-pp	TwinSplit® for S-Video
1806-pp	HexiSplit® for S-Video
1240	Single rackmount kit for one 1806 unit
1241	Double rackmount kit for two 1806 units
1250	Single rackmount kit for one 1802 unit
1251	Double rackmount kit for two 1802 units
1130-006	6-ft. extention cable w/2 x 4-pin mini-DIN-M termination
1130-012	10-ft. extention cable w/2 x 4-pin mini-DIN-M termination
1130-025	25-ft. extention cable w/2 x 4-pin mini-DIN-M termination
1130-050	50-ft. extention cable w/2 x 4-pin mini-DIN-M termination
1130	CAB-30 raw extension cable cut to custom length. Call for details.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Sales

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info@commspecial.com

Input/Output:

All input and output connectors are 4-pin mini-DIN-F

Outputs drive standard 75 Ohm loads

Differential gain: <0.1%

Differential phase: <0.1°

Power conector is 5-pin mini-DIN-F

Equipment included:

S-Video Splitter unit

UL/CSA/CE approved power supply 230 Volts AC/50 Hz TUV/CE approved tabletop supply is also available)

User's manual

Dimensions:

TwinSplit: 4.25 W x 1.5 H x 3.25 D (inches); 108 W x 38 H x 83 D (mm)

HexiSplit: 7.25 W x 1.5 H x 3.25 D (inches); 184 W x 38 H x 83 D (mm)

Weight: Each unit weights approx. 3 lbs. with power supply (1.35 kg)

Power

120 Volts AC, 60 Hz wall plug-in power supply or 230 Volts AC, 50 Hz tabletop

UL/CSA/TUV/CE approved

GSA Schedule Contract GS-03F-5063C

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Made in the USA

Splitters for RGB

Fully-buffered two and four output distribution amplifiers for RGB and YUV signals

Back Panel of QuadSplit for RGB (1261)

Ideal Applications:

Presentations, Education, Command and Control Centers, Simulation, Medical

Part#	Name	# Outputs
1260	Twinsplit®	2
1261	Quadsplit®	4

Features

Connect multiple projectors, LCD panels, multi-sync monitors and any equipment with BNC connectors to a single RGB or YUV source

Sync support for composite sync (CS), separate H & V, sync-on-green/Y and sync-on-all

Supports resolutions up to 1600 x 1280

300 MHz bandwidth

Operates at distances up to 250 feet

Compact, all metal casing

Designed for easy rackmounting

Unit comes with UL/CSA/CE approved power supply. Input and output cables must be purchased separately

Ordering Information

Part Number	Description
1260-pp	TwinSplit® for RGB
1261-pp	QuadSplit® for RGB
1244	Single rackmount kit for one 1260 or 1261 unit
1245	Double rackmount kit for two 1260 or 1261 units
1143-012	12-ft. extention cable w/10 x BNC-M termination
1143-025	25-ft. extention cable w/10 x BNC-M termination
1143-050	50-ft. extention cable w/10 x BNC-M termination
1143-100	100-ft. extention cable w/10 x BNC-M termination
1143	CAB-43 raw extension cable cut to custom length. Call for details.

NOTE: Please specify type of power supply when ordering.

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Sales

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info@commspecial.com

Input/Output:

All input and output connectors are BNC connectors

All sync outputs can drive either TTL loads or be terminated in 75 Ohms

RGB outputs drive standard 75 Ohm loads

Sync support: composite (CS), separate H&V, sync-on-green, sync-on-all

Sync input level: 1 Vp-p to 5 Vp-p

Power connector is 2.5 MM phone plug, center positive

Monitor type switch is used to set the monitor sync type used by workstation

Equipment Included:

RGB Splitter unit

UL/CSA/CE approved power supply (230 Volts AC/50 Hz TUV/CE approved tabletop supply is also available)

User's manual

Dimensions:

TwinSplit 7.25 W x 2.5 H x 6.25 D (inches); 184 W x 64 H x 159 D (mm)

QuadSplit: 7.25 W x 2.5 H x 6.25 D (inches); 184 W x 64 H x 159 D (mm)

Both models weigh approximately 1 lb; 0.45 kg

Power:

110 Volts AC to 120 Volts AC wall plug-in power supply or 220 Volts AC to 240 Volts AC tabletop

UL/CSA/TUV/CE approved

GSA Schedule Contract GS-03F-5063C

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Sales

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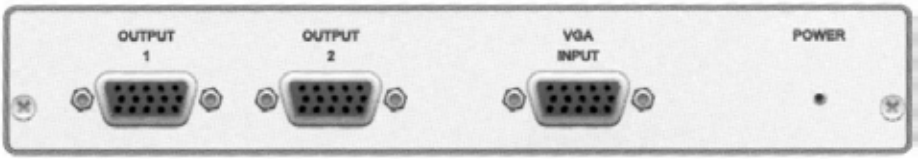
Made in the USA

TwinSplit® E.D.

"Extended Distance" VGA splitter distributes two buffered outputs to distances of up to 700 feet

Signal	Channel	Direction
VGA	1 (2 outputs)	→



Back Panel Drawing of TwinSplit E.D.

Features

Distributes computer video from a single PC to two monitors located at remote distances. Maximum distance supported varies by computer resolution:

640 x 480:	700 feet maximum
800 x 600:	600 feet maximum
1024 x 768:	500 feet maximum

Two independent outputs, each with adjustments to correspond to cable length

Equalization parameters set automatically

Support for local loop-through monitor

Unit comes with UL/CSA/CE approved power supply and one 6-ft. input cable. Output cables must be purchased separately

Compatible with VGA splitter models 1302, 1304, 1306, 1308 and 1310

Optional rackmount kits are available

Ordering Information

Part Number	Description
1067	TwinSplit® E.D. - 110 volts AC/60 Hz
1067-EU	TwinSplit® E.D. - 230 volts AC/50 Hz
1127	CAB-27 extension cable
1198	TERM-4 termination of CAB-27 cable w/connectors
1192	CONN-3 HD-15 M/F connector kit
1240	Single rackmount kit for one unit
1241	Double rackmount kit for two units

Sales

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Input/Output:

VGA input: HD-15F

VGA outputs: HD-15F

Power input: 2.5 mm subminiature phone jack, tip positive

Maximum distances supported over CAB-27 cable

640 x 480:	700 feet
800 x 600:	600 feet
1024 x 768:	500 feet

Equipment Included:

TwinSplit E.D.

Wall transformer power supply

6-ft. HD-15M to HD-15M cable for computer's VGA output to the input of TwinSplit E.D.

User manual

Dimensions:

Size: 7.25 W x 1.5 H x 6.25 D (inches); 184 W x 38 H x 159 D (mm))

Weight: Approximately 1 lb. (0.45 kg)

Power:

110 - 120 volts AC input wall transformer is provided

Output is rated at 9 volts DC @ 500 mA

UL/CSA approved

230 volts AC/50Hz input TUV tabletop version is available

Interconnecting Cable

Extenson cables providing an HD-15 connector on each end are available in custom lengths. The CAB-27 cable contains four 75 Ohm coax cables and additional wires in one shielded jacket. This cable may be ordered with a variety of termination options.

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Made in the USA

Cable Assembly/Termination

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

6202 Fiber Optic Termination Kit

Easily terminates fiber cable with no grinding, polishing, glues or epoxies

Ordering Information

6202	Fiber Optic Termination Kit
6210	ST connector for 62.5 micron multimode fiber
6211	FCPC connector for 62.5 micron multimode fiber
6212	ST connector for 50 micron multimode fiber
6213	SC connector for 62.5 micron multimode fiber
6220	FCPC connector for single mode fiber
6221	ST connector for single mode fiber

Connectors are not included within the kit and must be ordered separately.

Kit Includes

All tools for preparing both jacketed and unjacketed fiber

Fiber cleaver and termination jig

Visible laser light source

Portable carrying case

Instruction manual

Corning produced training video tape (NTSC)

See a photo demonstration of fiber termination at:
fiber-ed.com/res-fiber_term.htm

Features

Allows for easy and foolproof termination of ST and FCPC connectors on both multimode and single mode fibers

Uses Corning UniCam connector and termination system. Connectors must be purchased separately

Requires no grinding, epoxies or polishing

Provides consistently reliable high-performance terminations

Terminations can be completed in minutes, even without previous experience terminating fiber

All tools and adapters are provided

Visible light source (included) ensures precise terminations

Terminations may be used immediately

Ideal for both field and shop use

Lightweight and portable

GSA Schedule
Contract GS-03F-5063C

Sales

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Made in the USA

FIBERLINK®
VIDEO, AUDIO & DATA OVER FIBER

Fiber Cables and Connectors

Cables and connectors are available
for use with any Fiberlink® products

Fiber Cable Common Specifications

Single (simplex) and Dual (duplex) core
Single mode & Multimode fiber
8/10 micron, 50 micron & 62.5 micron
PVC and Plenum
Cables may be ordered raw or preterminated

Operating Temperature:	-20° to +70° C
Pull Load (Newtons) Install/Operate:	400/100
Bend Radius (cm) Install/Operate:	6.0/3.0
Buffer Dia. (micron):	900
Outer Diameter (O.D.) (mm):	Simplex: 2.9 Duplex: 2.9 x 5.8

Multimode Simplex Fiber Optic Cable

Description	Part #	Numerical Aperture	Max Attenuation 850nm	Max Attenuation 1310nm	Typical Attenuation 850nm	Typical Attenuation 1310nm
50 micron, PVC	6151	0.2	3.5	1.5	3.0	1.0
50 micron, Plenum	6171	0.2	3.5	1.5	3.0	1.0
Termination - 50 micron, 2 x ST connectors	6255					
62.5 micron PVC	6101	0.275	3.75	1.5	3.0	1.0
62.5 micron, Plenum	6111	0.275	3.75	1.5	3.0	1.0
Termination - 62.5 micron, 2 x ST connectors	6215					

Multimode Duplex Fiber Optic Cable

Description	Part #	Numerical Aperture	Max Attenuation 850nm	Max Attenuation 1310nm	Typical Attenuation 850nm	Typical Attenuation 1310nm
50 micron, PVC	6152	0.2	3.5	1.5	3.0	1.0
50 micron, Plenum	6172	0.2	3.5	1.5	3.0	1.0
Termination - 50 micron, 4 x ST connectors	6256					
62.5 micron, PVC	6102	0.275	3.75	1.5	3.0	1.0
62.5 micron, Plenum	6112	0.275	3.75	1.5	3.0	1.0
Termination - 62.5 micron, 4 x ST connectors	6216					

Single Mode Simplex Fiber Optic Cable

Description	Part #	Numerical Aperture	Max Attenuation 1310nm	Max Attenuation 1550nm	Typical Attenuation 1310nm	Typical Attenuation 1550nm
8/10 micron, PVC	6121	0.14	1.0	0.75	0.5	0.4
8/10 micron, Plenum	6131	0.14	1.0	0.75	0.5	0.4
Termination - 8/10 micron, 2 x FCPC	6225					

Single Mode Duplex Fiber Optic Cable

Description	Part #	Numerical Aperture	Max Attenuation 1310nm	Max Attenuation 1550nm	Typical Attenuation 1310nm	Typical Attenuation 1550nm
8/10 micron, PVC	6122	0.14	1.0	0.75	0.5	0.4
8/10 micron, Plenum	6132	0.14	1.0	0.75	0.5	0.4
Termination - 8/10 micron, 4 x FCPC	6226					

Connector Specifications

For use with 6202 Terminating Kit

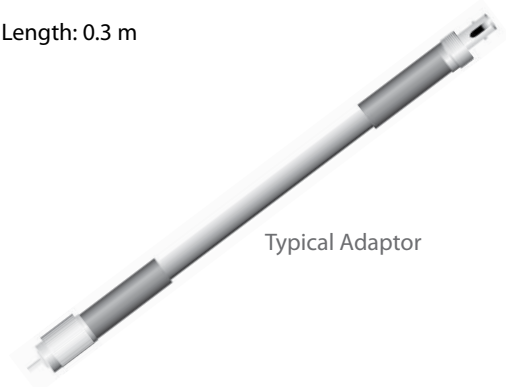
Ordering Information

Description	Part #
Fiber Optic Tool Kit for field termination of MM and SM fiber. May be used with LC, ST or FCPC connectors, listed below.	6202
ST Multimode Connector for 62.5 micron fiber	6210
FCPC Multimode Connector for 62.5 micron fiber	6211
ST Multimode Connector for 50 micron fiber	6212
SC Multimode Connector for 62.5 micron fiber	6213
LC Multimode Connectors for 62.5 micron fiber	6214
LC Multimode Connectors for 50 micron fiber	6217
FCPC Single Mode Connector	6220
ST Single Mode Connector	6221
LC Single Mode Connector	6222

Adaptor Specifications

Loss: Less than 0.5 dB

Length: 0.3 m



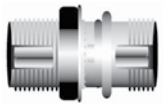
Typical Adaptor

Ordering Information

Description	Part #
ST (M) to SMA (F) for 62.5 micron Multimode fiber	6300
ST (M) to SC (F) for 62.5 micron Multimode fiber	6330
ST (M) to FCPC (F) for 62.5 micron Multimode fiber	6340
ST (M) to LC (F) for 62.5 micron Multimode fiber	6341
ST (M) to LC (F) for 50 micron Multimode fiber	6342
ST (F) to LC (M) for 62.5 micron Multimode fiber	6343
ST (F) to LC (M) for 50 micron Multimode fiber	6344
ST (F) to FCPC (M) for Single Mode fiber	6310
ST (M) to FCPC (F) for Single Mode fiber	6350
ST (M) to SC (F) for Single Mode fiber	6360
ST (M) to LC (F) for Single Mode fiber	6361
ST (F) to LC (M) for Single Mode fiber	6362

Butt Splice Specifications

Loss: Less than 0.5 dB



Ordering Information

Description	Part #
ST/ST Butt Splice	6320
FCPC/FCPC Butt Splice	6321
LC/LC Butt Splice	6322

Did you know that CSI carries a complete line of fiber optic test equipment?

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GSA Schedule Contract GS-03F-5063C

Made in the USA

UPDATED 2/6/2009

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Video Rackmounts and Cables

Rackmount kits and cables are available for use with all CSI video products. Cables may be ordered raw or preterminated.

Rackmount Description:

Sturdy single and double rackmount kits make it easy to mount Scan Do, Deuce, Splitter and Switcher units in standard 19-inch equipment racks.

Part Numbers for Single and Double Unit Rackmount Kits:

	Single	Double
Scan Do® Select	1240	1241
Scan Do® Pro II	1246	1247
Scan Do® Pro II/D	1246	1247
Deuce® MC	1240	1241
Deuce® HD	1240	1241
Deuce® SDQ	1240	1241
TwinSplit® VGA	1240	1241
QuadSplit® VGA	1244	1245
HexiSplit® VGA	1244	1245
OctoSplit® VGA	1244	1245
DeciSplit® VGA	1244	1245
QuadSwitch™ VGA	1244	1245
TwinSplit® RGB	1244	1245
QuadSplit® RGB	1244	1245
TwinSplit® S-Video	1250	1251
HexiSplit® S-Video	1240	1241
TwinSplit® E.D.	1240	1241
HexiSplit® Video	1240	1241

CAB-19 Ordering Information:

Part Number	Description
1119-006	6-ft extension cable with HD-15 M/F termination
1119-010	10-ft extension cable with HD-15 M/F termination
1119-025	25-ft extension cable with HD-15 M/F termination
1119-050	50-ft extension cable with HD-15 M/F termination
1119-100	100-ft extension cable with HD-15 M/F termination
1119	CAB-19 raw, for use with terminations and connector kit
1197	TERM-3 HD-15 M/F pre-attached to cable
1192	CONN-3 HD-15 M/F connector set
1176	HD-15 M/M gender Changer for connecting two cables together

CAB-19 Specifications:

For Use With: TwinSplit® for VGA, OctoSplit® for VGA, QuadSplit® for VGA, DeciSplit® for VGA, HexiSplit® for VGA, QuadSwitch™ for VGA

Cabling: Three coaxial cables, three single wires, and fibrillated polypropylene fillers twisted together

Outer Diameter: 0.300 inches nominal

Shield: Aluminum/polyester tape, aluminum facing in, 24% overlap

Electrical Characteristics: Coaxial impedance: 75 Ohm; Capacitance: 18.6 pF/ft nominal

Sales

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info@commspecial.com

CAB-30 Specifications:

For Use With: TwinSplit for S-Video, HexiSplit for S-Video

Cabling: Two mini-coaxial cables

Outer Diameter: 0.232 inches nominal

CAB-30 Ordering Information:

Part Number	Description
1130-006	6-ft. extension cable w/2 x 4-pin mini-DIN-M preattached to cable
1130-012	12-ft. extension cable w/2 x 4-pin mini-DIN-M preattached to cable
1130-025	25-ft. extension cable w/2 x 4-pin mini-DIN-M preattached to cable
1130-050	50-ft. extension cable w/2 x 4-pin mini-DIN-M preattached to cable
1130	CAB-30, raw, for use with terminations
1164	TERM-9; 2 x 4-pin mini-DIN-M preattached to cable
1178	S-Video F/F Gender Changer for connecting two cables together

CAB-43 Specifications:

For Use With: TwinSplit for RGB QuadSplit for RGB

Cabling: Five coaxial cables

Outer Diameter: 0.365 inches nominal

Shield: 100% spiral tinned copper shield

Electrical Characteristics: coaxial impedance: 75 Ohms; Capacitance: 18.6 pF/ft nominal

CAB-43 Ordering Information:

Part Number	Description
1143-012	12-ft. extension cable w/10 BNC-M termination
1143-025	25-ft. extension cable w/10 BNC-M termination
1143-050	50-ft. extension cable w/10 BNC-M termination
1143-100	100-ft. extension cable w/10 BNC-M termination
1143	CAB-43, raw, for use with terminations
1143PL	CAB-43, Planum-rated, for use with terminations
1167	TERM-6, 10 x BNC-M pre-attached to cable
1166	TERM-8, 8 x BNC-M, pre-attached to cable

CAB-59 Specifications:

For Use With: HexiSplit for Video

Cabling: Single coaxial cable

Outer Diameter: 0.242 inches nominal

Electrical Characteristics: Coaxial impedance: 75 Ohms

CAB-59 Ordering Information:

Part Number	Description
1159-006	6-ft. extension cable w/2 x BNC-M termination
1159-012	12-ft. extension cable w/2 x BNC-M termination
1159-025	25-ft. extension cable w/2 x BNC-M termination
1159-050	50-ft. extension cable w/2 x BNC-M termination
1159	CAB-59, raw, for use with terminations
1169	TERM-5, 2 x BNC-M preattached to cable
1173	BNC F/F adaptor "bullet" for connectiong two cables together

CAB-27 Specifications:

For Use With: TwinSplit E.D. for VGA

Cabling: Four coaxial, two single wires, and fibrillated polypropylene fillers twisted together

Outer Diameter: 0.335 inches nominal

Electrical Characteristics: Coaxial impedance: 75 Ohms; Capacitance: 18.6 pF/ft nominal

CAB-27 Ordering Information:

Part Number	Description
1127	CAB-27, raw, for use with terminations and connector kits
1198	TERM-4, HD-15M/F preattached to cable
1192	CONN-3, HD-15 M/F connector set

Note: CAB-27 is not available in standard, pre-cut lengths.

GSA Schedule Contract GS-03F-5063C

Made in the USA

UPDATED 2/6/2009

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Power Supplies

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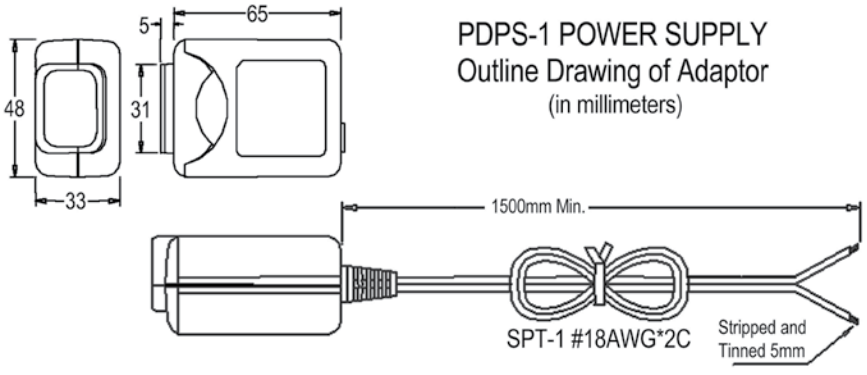
PDPS-1: Universal Power Supply

Provides power to Fiberlink box units requiring an external power adaptor



PDPS-1 POWER SUPPLY
Outline Drawing of Adaptor
(in millimeters)

Features

One power supply is required for each box unit (transmitter, receiver or transceiver) that does not feature an internal power supply

AC line cord is included. Two letter suffix following part number indicates type

Ordering Information

Part Number	Description
PDPS-1-pp	Fiberlink Universal Power Supply

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

Sales

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info@commspecial.com

General Specifications

Input Voltage/Frequency	100-250 VAC; 50/60 Hz
Input Rated Current	140 mA ±20% @ 220 VAC; 50/60 Hz
No Load Output Voltage	11.40 - 12.60 VDC
Output Voltage	11.40 - 12.60 VDC
Output Current (max)	Rated loading current: DC 1.0 A
Output Ripple	120 mV p-p max. @ 20 MHz bandwidth
Noise	150 mV p-p max. @ 20 MHz bandwidth
Operating Temperature Range	0 to +40° Celcius
Storage Temperature Range	-20 to +60° Celcius
Operating and Storage Humidity	20% to 90% relative humidity (non-condensing)
Vibration Test	After acceleration of 1G: 5-55 Hz, total amplitude, 1.5 mm for 1 hour. No functional or structural abnormality found
Weight	4.94 ounces ±35 ounces 140 grams ±10 grams
Dimensions	2.56 L x 1.89 W x 1.3 H (inches) 65 L x 48 W x 33 H (mm)
Over Voltage Protection	The output voltage is cut off when the output voltage is over 120%
Short Circuit Protection	Auto recovery mode; when short circuit condition is removed, output is restored
Efficiency	75% typical @ 250 VAC; 50/60 Hz
Shell	94V-0
EMI	Meets VCCI class 2; FCC class B; Cispr Class 2
Output Polarity	Wire with markings is positive (+)
MTBF	50,000 Hours

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalers. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Video Conferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

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PDPS-1: Universal Power Supply

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3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

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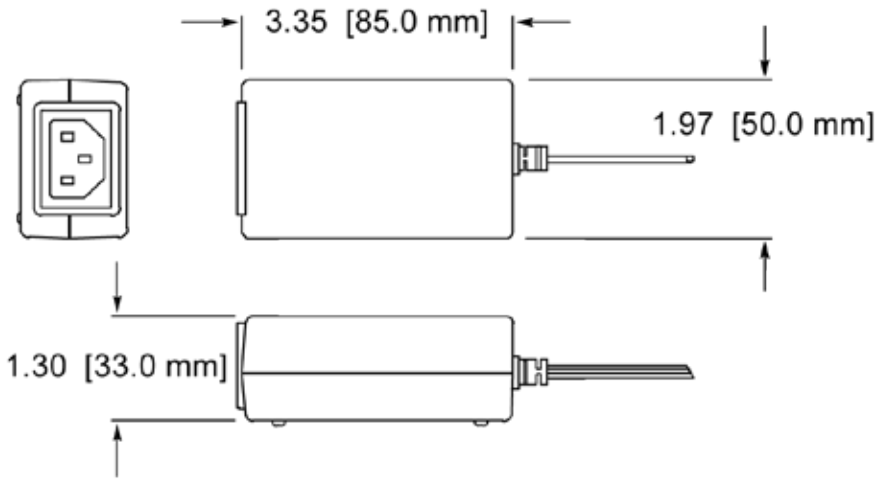
PDPS-2: Universal Power Supply

Provides power to Fiberlink box units requiring an external power adaptor



Features

One power supply is required for each box unit (transmitter, receiver or transceiver) that does not feature an internal power supply

AC line cord is included. Two letter suffix following part number indicates type

Ordering Information

Part Number	Description
PDPS-2-pp	Fiberlink Universal Power Supply

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
AU - Australia
EU - Europe
JP - Japan
UK - United Kingdom

Sales

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General Specifications

Input Voltage/Frequency	85-264 VAC; 47-63Hz
Input Rated Current	< 0.5A RMS
No Load Output Voltage	11.40 volts - 12.60 VDC
Output Voltage	11.40 volts - 12.60 VDC
Output Current (max)	Rated loading current: DC 1.5 A
Output Ripple	120 mV p-p max. @ 20 MHz bandwidth
Noise	150 mV p-p max. @ 20 MHz bandwidth
Operating Temperature Range	0 to +60° Celcius
Storage Temperature Range	-40 to +85° Celcius
Operating and Storage Humidity	20% to 90% relative humidity (non-condensing)
Weight	11.3 ounces 320 grams
Dimensions	3.35 L x 1.97 W x 1.3 H (inches) 85 L x 50 W x 33 H (mm)
Over Voltage Protection	The output voltage is cut off when the output voltage is over 120%
Short Circuit Protection	Auto recovery mode; when short circuit condition is removed, output is restored
Efficiency	83.5% typical @ 115 VAC; 81.6% @ 230 VAC
Shell	94V-0
EMI	Meets VCCI class 2; FCC class B; Cispr Class B
Output Polarity	Wire with markings is positive (+)
MTBF	100,000 Hours

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PDPS-2: Universal Power Supply

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Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalers

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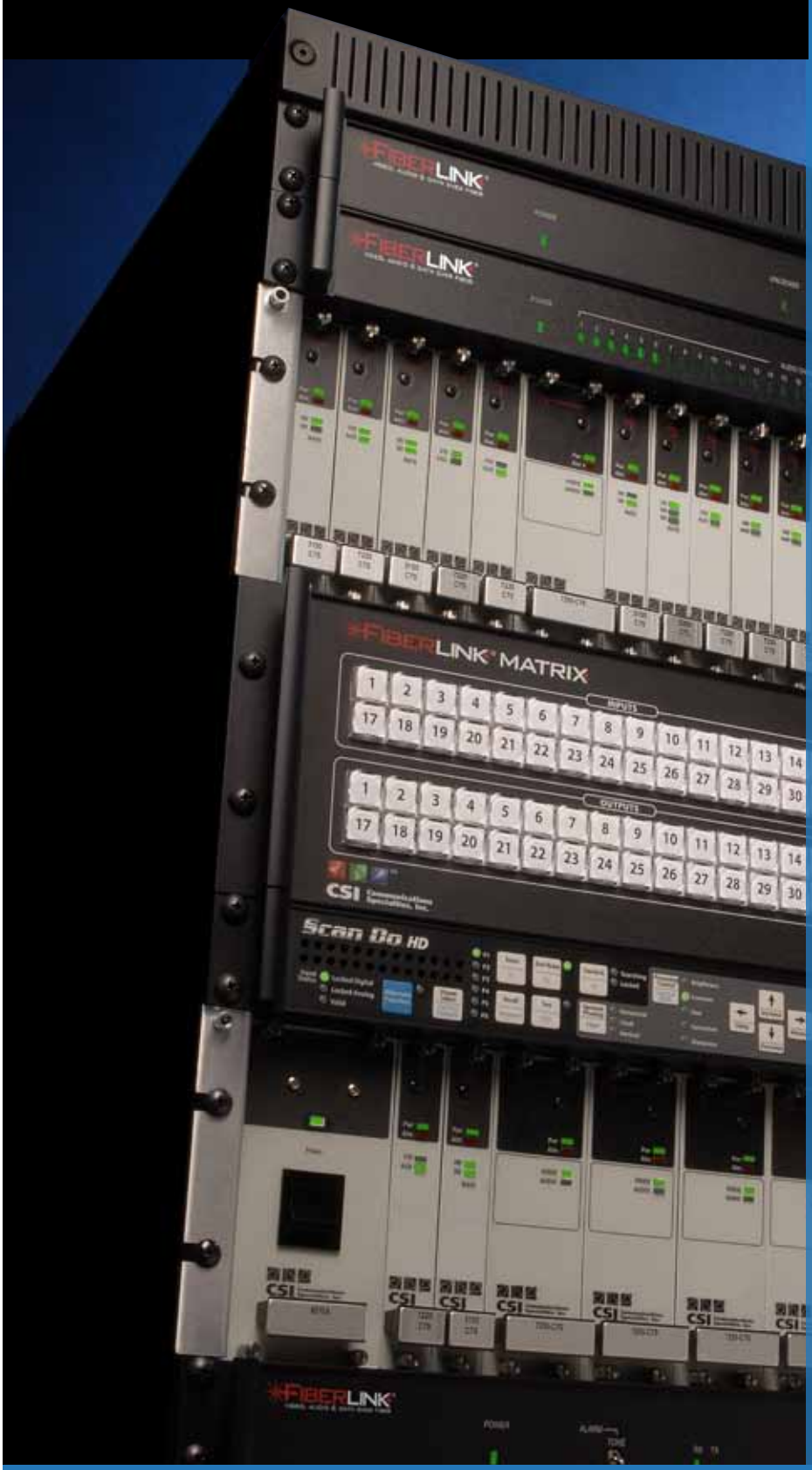
Spring 2013 Product Catalog

CSI Communications Specialties, Inc.



World Headquarters
55 Cabot Court
Hauppauge, New York 11788
USA
Tel: (631) 273-0404
Fax: (631) 273-1638
info@commspecial.com

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March 12, 2013